

Accepted 07/23/04

Access DB# 86531

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: HOA VAN LE Examiner #: 60626 Date: 02/11/03
Art Unit: 1752 Phone Number 308-2295 Serial Number: 10/028,132
Mail Box and Bldg/Room Location: CP3-9B10 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____ *please see the attachment*

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search for compounds of the general formula E.

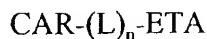
Thank you

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	Type of Search	Vendors and cost where applicable
Searcher: <u>EL</u>	NA Sequence (#) _____ STN <u>7319.94</u>	
Searcher Phone #: _____	AA Sequence (#) _____ Dialog _____	
Searcher Location: _____	Structure (#) <u>(1)</u> Questel/Orbit _____	
Date Searcher Picked Up: _____	Bibliographic <u>(and)</u> Dr. Link _____	
Date Completed: <u>2-12-03</u>	Litigation _____ Lexis/Nexis _____	
Searcher Prep & Review Time: <u>15</u>	Fulltext _____ Sequence Systems _____	
Clerical Prep Time: _____	Patent Family _____ WWW/Internet _____	
Online Time: <u>65</u>	Other _____ Other (specify) _____	

WHAT IS CLAIMED IS:

1. A method of processing a silver bromoiodide photographic element comprising contacting the photographic element with a color developer for less than 120 seconds; wherein the photographic element comprises a support and more than one dye forming unit, and wherein the dye forming unit closest to the support contains an electron transfer agent releasing compound represented by the formula:



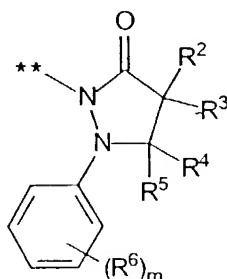
wherein:

CAR is a carrier moiety which is capable of releasing $-(\text{L})_n\text{-ETA}$ on reaction with oxidized developing agent;

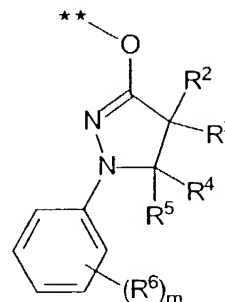
L is a divalent linking group, n is 0, 1, or 2; and

ETA is a releasable 1-aryl-3-pyrazolidinone electron transfer agent having a calculated log partition coefficient (c log P) greater than or equal to 2.40 bonded to L or CAR through either the nitrogen atom in the 2-position or the oxygen attached to the 3-position of the pyrazolidinone ring.

2. The method of claim 1 wherein ETA is represented by Formulas I or II



I



II

**denotes point of attachment to $\text{CAR}-(\text{L})_n$;

wherein:

R^2 and R^3 each independently represents hydrogen, a substituted or unsubstituted alkyl group having from 1 to 12 carbon atoms, CH_2OR^7 or

$\text{CH}_2\text{OC(O)R}^7$ where R^7 is a substituted or unsubstituted alkyl, aryl, or a heteroatom containing group;

R^4 and R^5 each independently represents hydrogen, a substituted or unsubstituted alkyl group having from 1 to 8 carbon atoms or a substituted or unsubstituted aryl group having from 6 to 10 carbon atoms;

R^6 is a substituent; and m is 0 to 5; wherein when m is greater than 1, the R^6 substituents may form a carbocyclic or heterocyclic ring.

3. The method of claim 2 wherein R^2 and R^3 are independently alkyl, CH_2OR^7 or $\text{CH}_2\text{OC(O)R}^7$ groups containing 3 to 8 carbon atoms; R^4 and R^5 are hydrogen, R^6 is independently a halogen, a substituted or unsubstituted alkyl group having from 1 to 8 carbon atoms, a substituted or unsubstituted alkoxy group having from 1 to 8 carbon atoms, an amido, sulfonamido, ester, cyano, sulfone, carbamoyl, uriedo group, or a heteroatom containing group or ring.

4. The method of claim 2 wherein R^4 and R^5 are hydrogen; and R^2 , R^3 , and R^6 are as represented in the following table:

TABLE

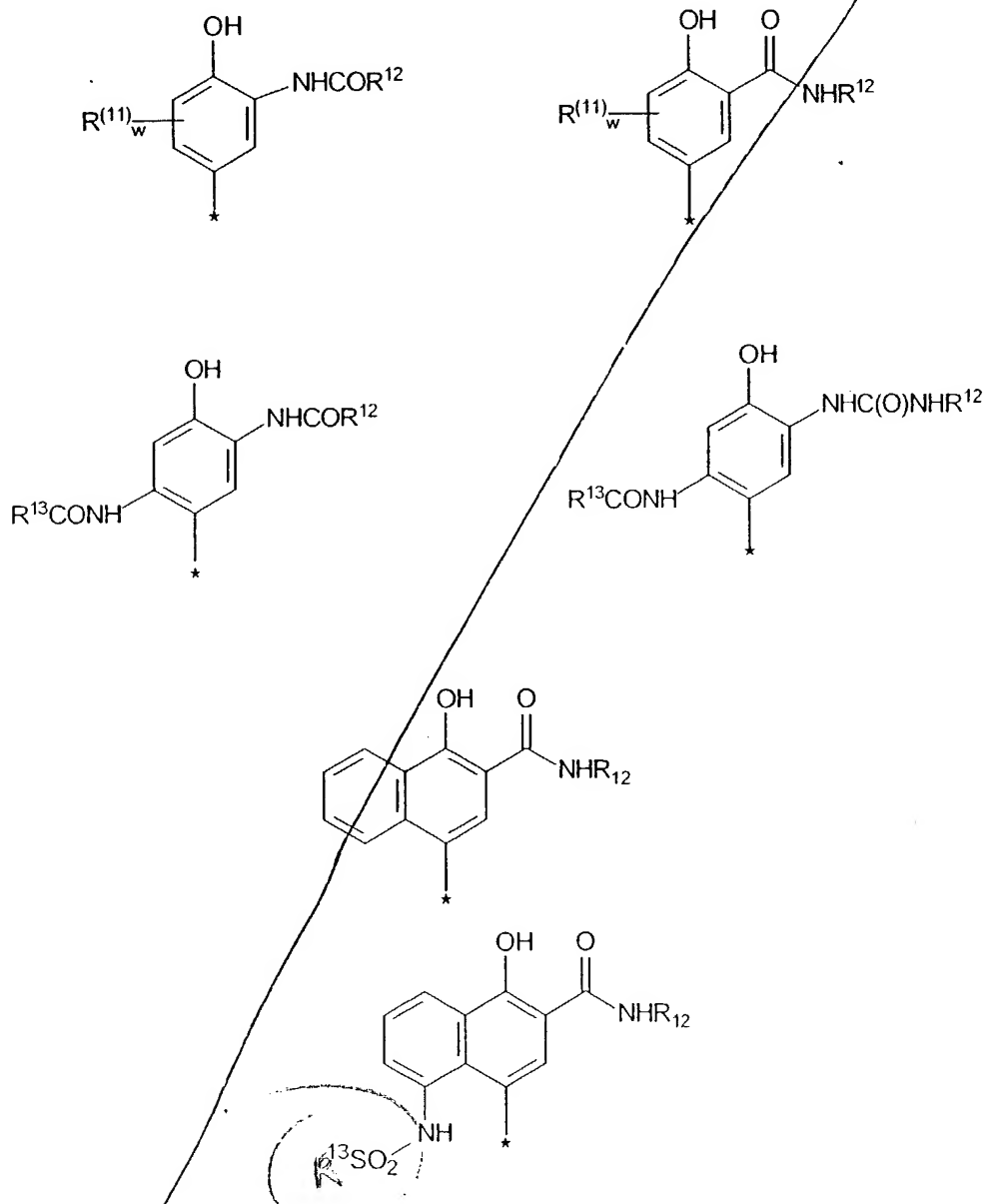
ETA No.	R^2	R^3	R^6
1	CH_3	$\text{CH}_2\text{OC(O)iPr}$	H
2	CH_3	$\text{CH}_2\text{OC(O)tBu}$	H
3	CH_3	$\text{CH}_2\text{OC(O)Et}$	p- CH_3
4	CH_3	$\text{CH}_2\text{OC(O)Et}$	3,4-dimethyl
5	H	$\text{CH}_2\text{OC}_4\text{H}_9\text{-n}$	p- OCH_3
6	CH_3	$\text{CH}_2\text{OC(O)CH}_2\text{-O-(CH}_2)_2\text{S(CH}_2)_2\text{SMe}$	H

5. The method of claim 1 wherein CAR is a coupler moiety.

6. The method of claim 5 wherein the coupler moiety is a phenol or naphthol coupler moiety.

7. The method of claim 1 wherein the electron transfer agent releasing compound is contained in the emulsion layer at a concentration from about 6 $\mu\text{mole}/\text{m}^2$ to about 500 $\mu\text{mole}/\text{m}^2$.

8. The method of claim 6 wherein the coupler moiety is represented by the structures:



* denotes link to -(L)_n-ETA

540
10/5

where R^{12} and R^{13} are independently a ballast group, a hydrogen, or a substituted or unsubstituted alkyl or aryl group, R^{11} is a halogen atom, an alkyl group having from 1 to 4 carbon atoms or an alkoxy group having from 1 to 4 carbon atoms, and w is 1 or 2.

9. The method of claim 1 wherein the ETA has a calculated log partition coefficient ($c \log P$) between and including 2.40 and 3.50.

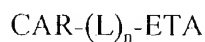
10. The method of claim 1 wherein the dye forming unit closest to the support is the red dye forming unit.

11. The method of claim 1 wherein the electron transfer agent releasing compound is contained in the least light sensitive layer of the dye forming unit.

12. The method of claim 1 wherein the silver bromoiodide photographic element is contacted with the color developer for 100 seconds or less.

13. The method of claim 1 wherein the silver bromoiodide photographic element is contacted with the color developer for 60 seconds or less.

14. A method of processing a silver bromoiodide photographic element comprising contacting the photographic element with a color developer for 100 seconds or less; wherein the photographic element comprises a support and more than one dye forming unit, and wherein the dye forming unit closest to the support contains an electron transfer agent releasing compound represented by the formula:

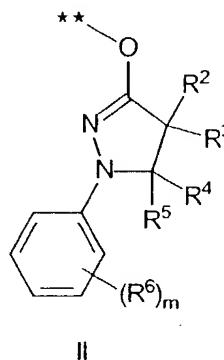
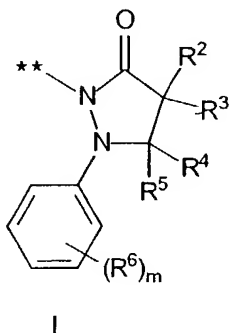


wherein:

CAR is a coupler moiety which is capable of releasing $-(L)n$ -ETA on reaction with oxidized developing agent;

L is a divalent linking group, n is 0, 1, or 2; and

ETA is a releasable 1-aryl-3-pyrazolidinone electron transfer agent having a calculated log partition coefficient (c log P) greater than or equal to 2.40 wherein ETA is represented by the formulas:



**denotes point of attachment to $CAR-(L)_n$;

wherein:

R^2 and R^3 each independently represents hydrogen, a substituted or unsubstituted alkyl group having from 1 to 12 carbon atoms, CH_2OR^7 or $CH_2OC(O)R^7$ where R^7 is a substituted or unsubstituted alkyl, aryl or a heteroatom containing group;

R^4 and R^5 each independently represents hydrogen, a substituted or unsubstituted alkyl group having from 1 to 8 carbon atoms or a substituted or unsubstituted aryl group having from 6 to 10 carbon atoms;

R^6 is independently a substituent; and m is 0 to 5 wherein when m is greater than 1, the R^6 substituents may form a carbocyclic or heterocyclic ring.

15. The photographic element of claim 14 wherein R^2 and R^3 are independently alkyl, CH_2OR^7 or $CH_2OC(O)R^7$ groups containing 3 to 8 carbon atoms; R^4 and R^5 are hydrogen; and R^6 is independently a halogen, a substituted or unsubstituted alkyl group having from 1 to 8 carbon atoms, a substituted or unsubstituted alkoxy group having from 1 to 8 carbon atoms, an amido,

sulfonamido, ester, cyano, sulfone, carbamoyl, uriedo group, or a heteroatom containing group or ring.

16. The photographic element of claim 14 wherein R^4 and R^5 are hydrogen; and R^2 , R^3 and R^6 are as represented in the following Table:

TABLE

ETA No.	R^2	R^3	R^6
1	CH ₃	CH ₂ OC(O)iPr	H
2	CH ₃	CH ₂ OC(O)tBu	H
3	CH ₃	CH ₂ OC(O)Et	p- CH ₃
4	CH ₃	CH ₂ OC(O)Et	3,4-dimethyl
5	H	CH ₂ OC ₄ H _{9-n}	p-OCH ₃
6	CH ₃	CH ₂ OC(O)CH ₂ -O-(CH ₂) ₂ S(CH ₂) ₂ SMe	H

17. The method of claim 14 wherein the coupler moiety is a phenol or naphthol coupler moiety.

18. The photographic element of claim 19 wherein the ETA has a calculated log partition coefficient (c log P) between and including 2.40 and 3.50.

19. The method of claim 14 wherein the dye forming unit closest to the support is the red dye forming unit.

20. The method of claim 14 wherein the electron transfer agent releasing compound is contained in the least light sensitive layer of the dye forming unit.

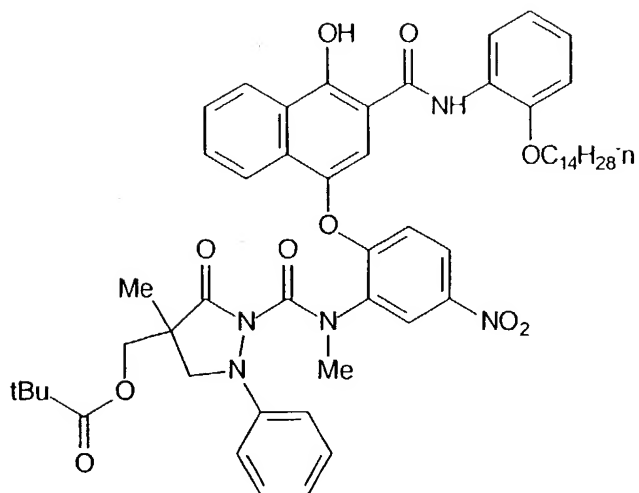
21. The method of claim 14 wherein the silver bromiodide photographic element is contacted with the color developer for 60 seconds or less.

22. The method of claim 1 wherein the dye forming unit closest to the support contains a development inhibitor releasing compound.

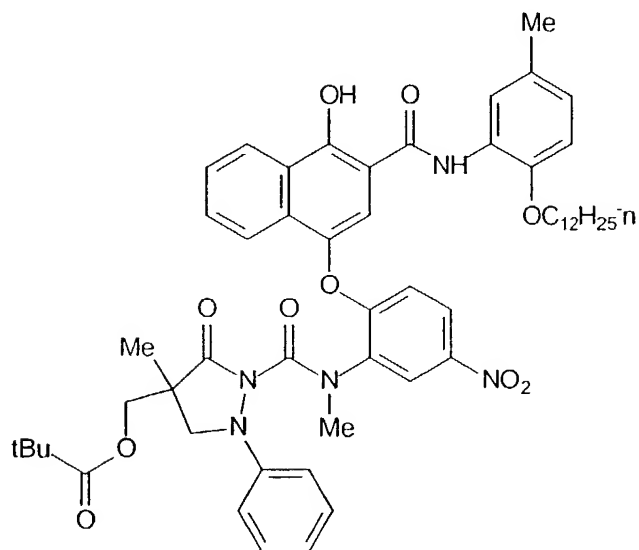
23. The method of claim 14 wherein the dye forming unit closest to the support contains a development inhibitor releasing compound.

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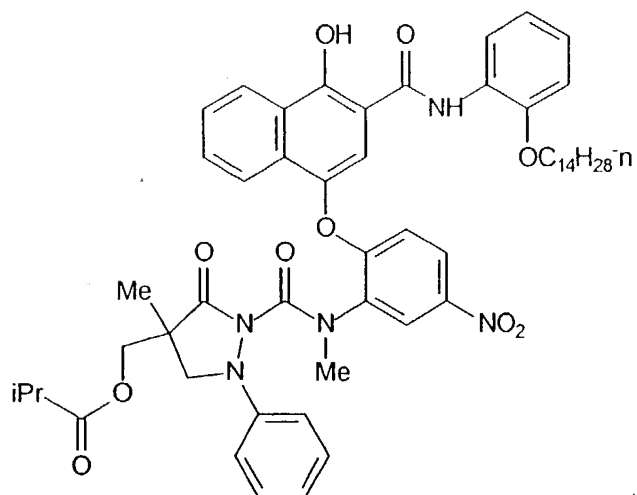
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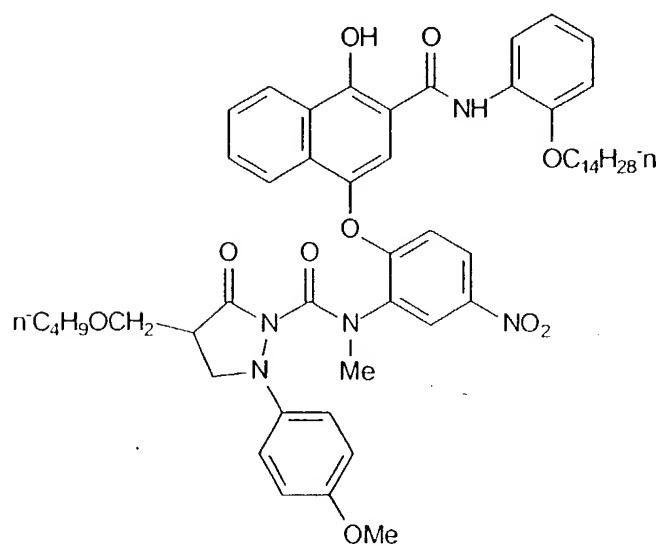
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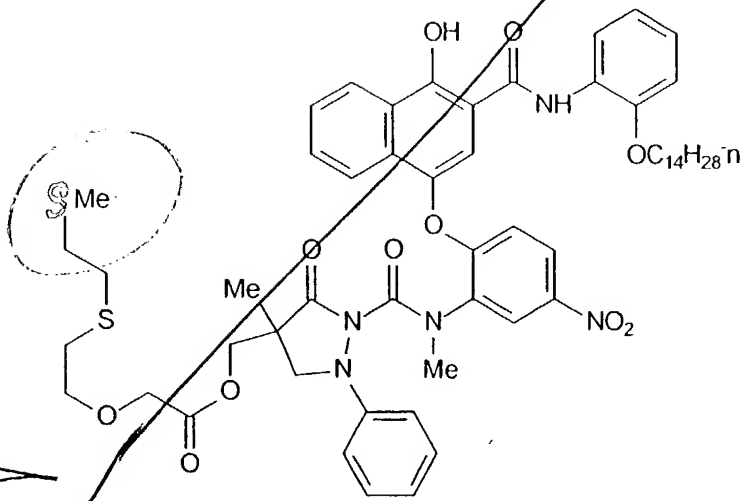
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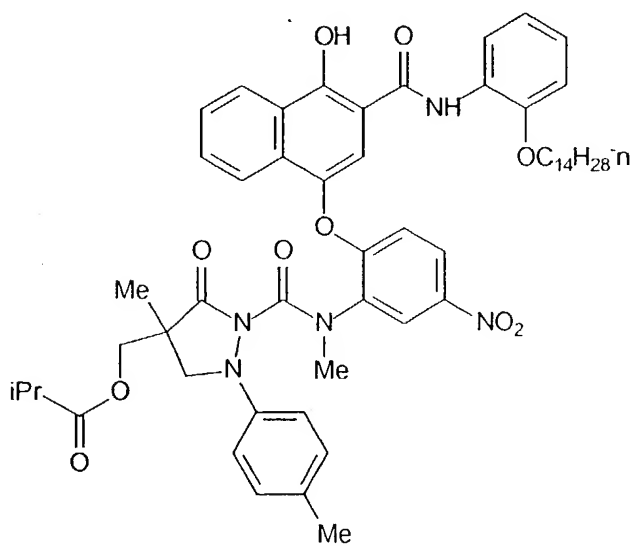


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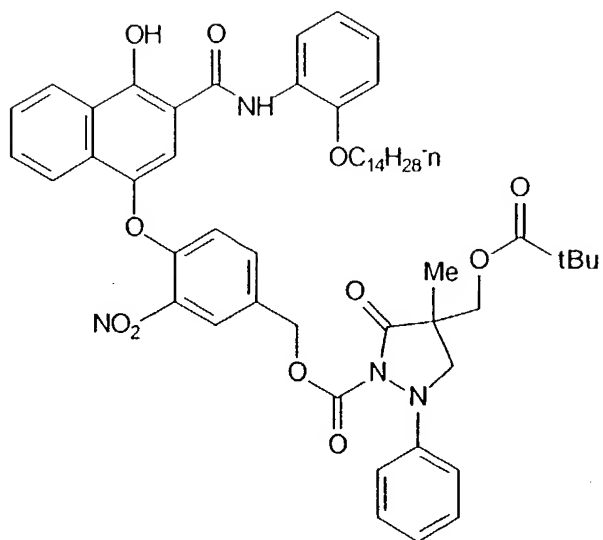


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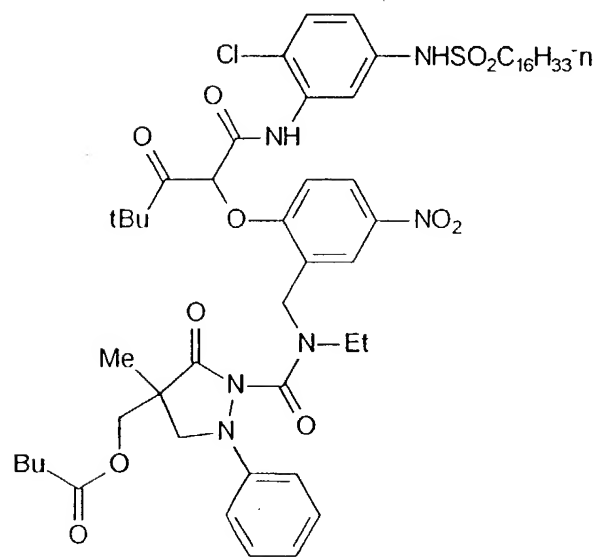
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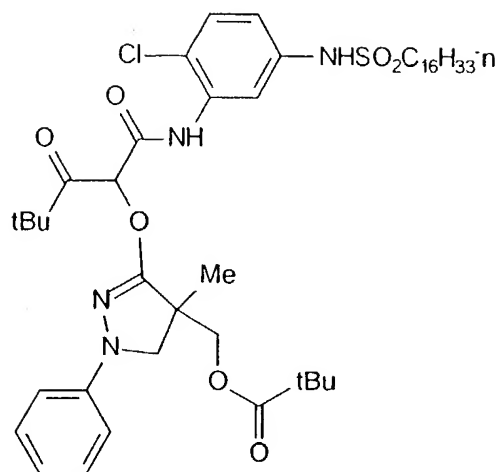
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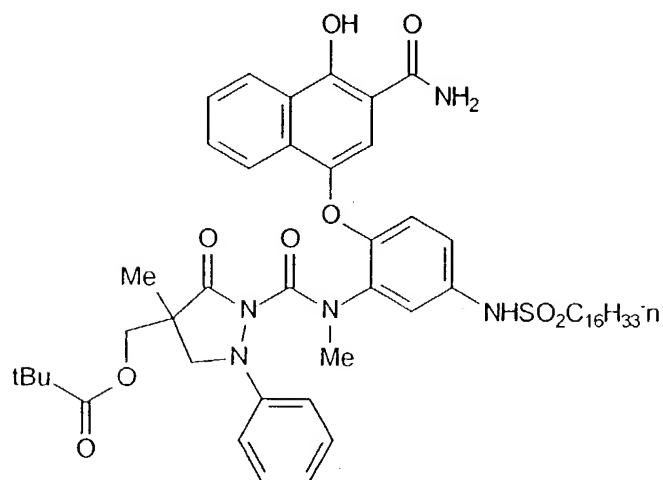
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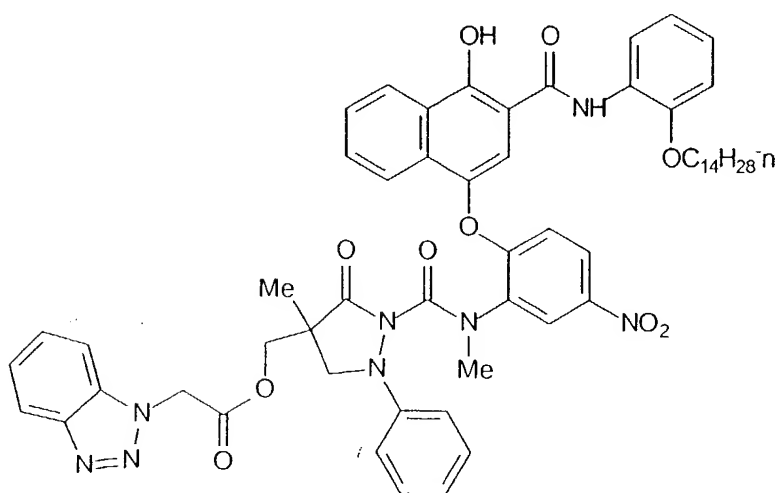


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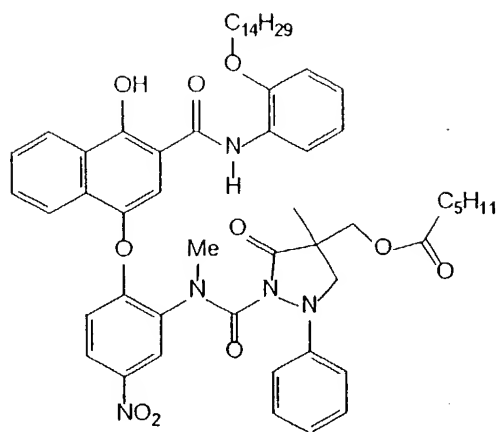


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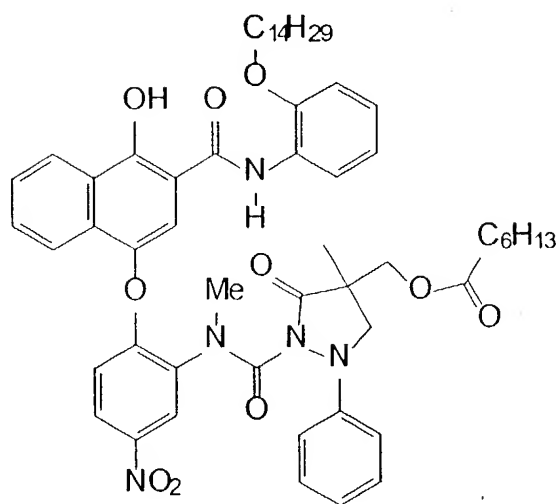
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E-15



5 E-17





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BIBDATASHEET**CONFIRMATION NO. 2406**

Bib Data Sheet

SERIAL NUMBER 10/028,132	FILING DATE 12/20/2001 RULE	CLASS 430	GROUP ART UNIT 1752	ATTORNEY DOCKET NO. 82142SMR
APPLICANTS Stuart T. Gordon, Rochester, NY; Sharon R. Lunt, Webster, NY; David T. Southby, Rochester, NY; Robert A. Arcus, Penfield, NY;				
** CONTINUING DATA *****				
** FOREIGN APPLICATIONS *****				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 02/27/2002				
Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no	35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance	STATE OR COUNTRY NY	SHEETS DRAWING 0	TOTAL CLAIMS 23
Verified and Acknowledged	Examiner's Signature _____ Initials _____			INDEPENDENT CLAIMS 2
ADDRESS Paul A. Leipold Patent Legal Staff Eastman Kodak Company 343 State Street Rochester , NY 14650-2201				
TITLE Method of processing a photographic element containing electron transfer agent releasing couplers				
FILING FEE	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue)	
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Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L1 STR
L2 STR L1

FILE 'REGISTRY' ENTERED AT 08:20:43 ON 12 FEB 2003

L3 50 S L2

FILE 'HCA' ENTERED AT 08:25:13 ON 12 FEB 2003

L4 6 S L3
L5 156772 S PHOTOG?
L6 2 S L4 AND L5
SEL L6 1-2 HIT RN

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L7 2 S E1-E2

FILE 'LREGISTRY' ENTERED AT 09:14:34 ON 12 FEB 2003

L8 STR L2
L9 STR L8

FILE 'REGISTRY' ENTERED AT 10:16:33 ON 12 FEB 2003

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L11 4192 S L8 FUL
SAV L11 LE132/A

L12 0 S L9 SSS SAM SUB=L11
L13 STR L9
L14 1 S L13 SSS SAM SUB=L11
L15 14 S L13 SSS FUL SUB=L11
SAV L15 LE132A/A
L16 35 S (AG(L)BR(L)I)/ELS (L) 3/ELC.SUB
L17 284 S (AG(L)X)/ELS (L) 2/ELC.SUB

FILE 'LCA' ENTERED AT 10:26:18 ON 12 FEB 2003

L18 116 S ((SILVER# OR AG) (W) (HALIDE# OR MONOHALIDE# OR DIHALIDE#
L19 113 S (AGX OR AGX2 OR AGF OR AGF2 OR AGCL OR AGCL2 OR AGBR OR
L20 720 S PHOTOG? OR IMAGE# OR IMAGING# OR PHOTOIMAG? OR REPROG?
L21 QUE 74/SC,SX

FILE 'HCA' ENTERED AT 10:32:22 ON 12 FEB 2003

L22 1106 S L16 OR AGIBR OR AGBRI OR (SILVER# OR AG) (A) (BROMIODIDE
L23 81141 S L17 OR L18 OR L19 OR AGX
L24 9 S L15
L25 6448 S L11
L26 9 S L24 AND (L22 OR L23 OR L20 OR L21)
L27 2 S L25 AND L22
L28 366 S L25 AND L23
L29 520 S L25 AND (L20 OR L21)
L30 366 S L28 AND L29
L31 1759996 S DEVELOP?
L32 173196 S ETA OR E(W)T(W)A OR (ELECTRON OR E) (2A)TRANSFER? OR TRA
L33 220 S L30 AND L31
L34 17 S L30 AND L32
L35 582766 S COUPL?
L36 14 S L33 AND L34
L37 104 S L33 AND L35
L38 6 S L34 AND L35

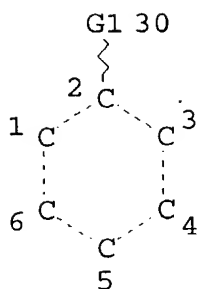
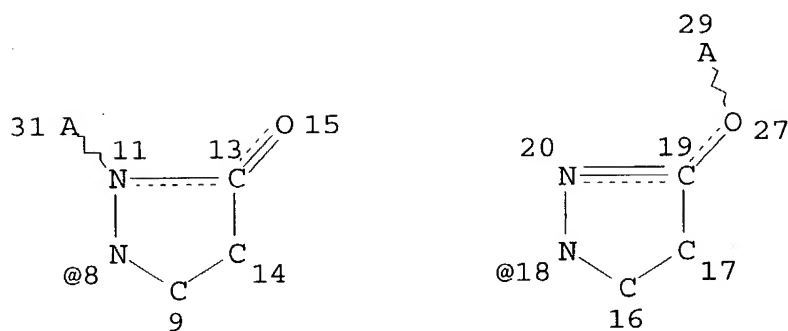
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L41 47 S L25 AND L39
L42 0 S L37 AND L39
L43 19 S L37 AND L40
L44 2 S L41 AND (L22 OR L23 OR L20 OR L21)
L45 14 S L26 OR L27 OR L38 OR L44
L46 25 S (L34 OR L36 OR L43) NOT L45

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L8 STR



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NSPEC IS RC AT 31

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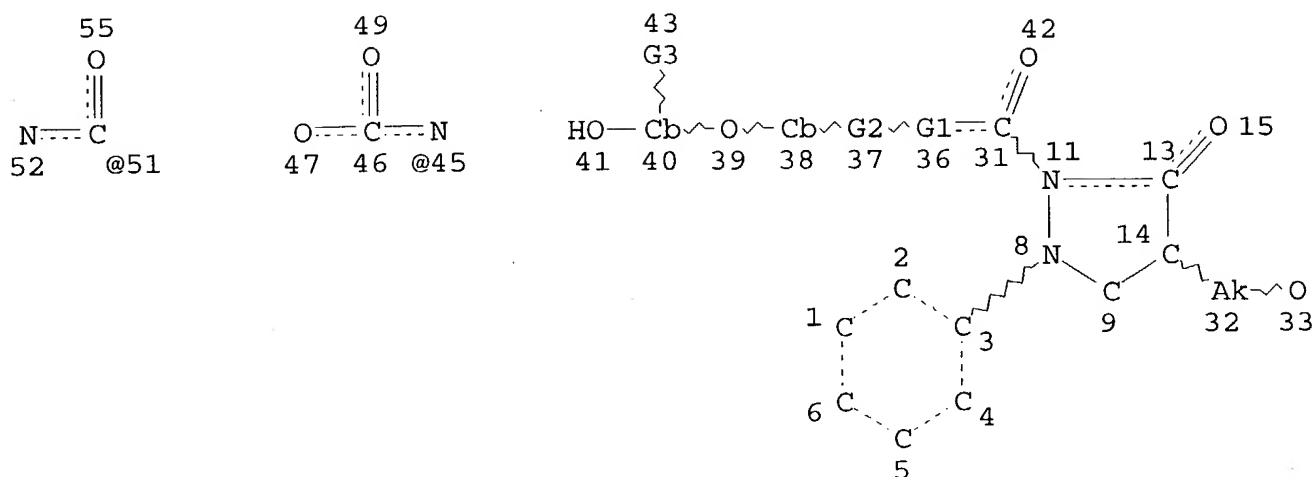
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NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

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L13 STR



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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 30

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14 ANSWERS

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FILE LAST UPDATED: 6 Feb 2003 (20030206/ED)

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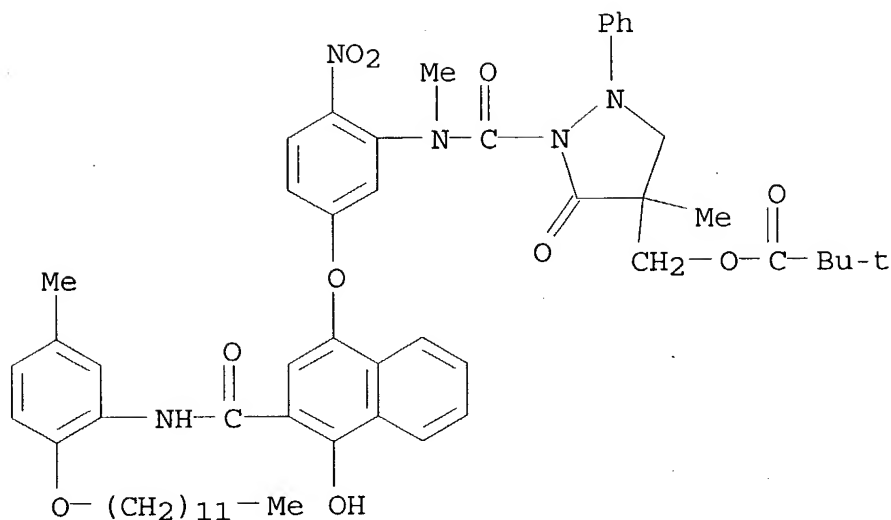
136:332737 Color **photographic** element containing speed improving compound in combination with electron transfer agent releasing compound. Bringley, Joseph F.; Friday, James A.; Singer, Stephen Paul; Vitale, Marcello (Eastman Kodak Company, USA). Eur. Pat. Appl. EP 1199600 A2 20020424, 56 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR. (English). CODEN: EPXXDW. APPLICATION: EP 2001-203776 20011005. PRIORITY: US 2000-690569 20001017.

AB Disclosed is a color **silver halide photog.** element comprising a support bearing: (1) a light sensitive **silver halide** emulsion layer; (2) a nitrogen heterocycle with a min. of three heteroatoms that does not react with oxidized developer, does not contain free thiol substituents, and has a ClogP sufficient to increase the **photog.** speed of said element compared to the same element without the compd., said heterocycle compd. located either in said light sensitive layer or in a layer adjacent to it; and (3) an ETARC (Electron Transfer Agent Releasing Compd.), in or adjacent to said light sensitive **silver halide** emulsion layer, that releases, upon reaction with oxidized developer, an electron transfer agent having a ClogP of at least 2.40. The invention provides improved light sensitivity.

IT **412272-29-8P**
(electron transfer agent releasing compd.; color **photog** . element contg. speed improving compd. in combination with electron transfer agent releasing compd.)

RN 412272-29-8 HCA

CN Propanoic acid, 2,2-dimethyl-, [2-[[[5-[[3-[[[2-(dodecyloxy)-5-methylphenyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]oxy]-2-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



- IC ICM G03C007-392
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST color **photog** film speed electron transfer agent releasing
compd; nitrogen heterocycle color **photog** light sensitivity
ETARC
- IT **Photographic** films
(color; color **photog**. element contg. speed improving
compd. in combination with electron transfer agent releasing
compd.)
- IT 412272-29-8P
(electron transfer agent releasing compd.; color **photog**
. element contg. speed improving compd. in combination with
electron transfer agent releasing compd.)
- IT 75-44-5, Phosgene 3282-30-2, Pivaloyl chloride 13047-13-7,
4-(Hydroxymethyl)-4-methyl-1-phenyl-3-pyrazolidinone 412272-30-1
(prepn. of electron transfer agent releasing agent for color
photog. film to improve light sensitivity)
- IT 81430-10-6P 279686-36-1P
(prepn. of electron transfer agent releasing agent for color
photog. film to improve light sensitivity)
- IT 87-42-3, 6-Chloropurine 112-72-1, Tetradecanol
(prepn. of speed improving compd. for color **photog**.
film to improve light sensitivity)
- IT 280575-77-1
(speed improving compd.; color **photog**. element contg.
speed improving compd. in combination with electron transfer
agent releasing compd.)
- IT 280575-67-9P, 6-(Tetradecyloxy)purine
(speed improving compd.; color **photog**. element contg.
speed improving compd. in combination with electron transfer
agent releasing compd.)

L45 ANSWER 2 OF 14 HCA COPYRIGHT 2003 ACS

136:207624 Color **photographic** film containing speed improving compound in combination with reflecting material. Bringley, Joseph F.; Friday, James A.; Singer, Stephen P.; Vitale, Marcello (Eastman Kodak Company, USA). U.S. US 6350564 B1 20020226, 42 pp. (English). CODEN: USXXAM. APPLICATION: US 2000-690310 20001017.

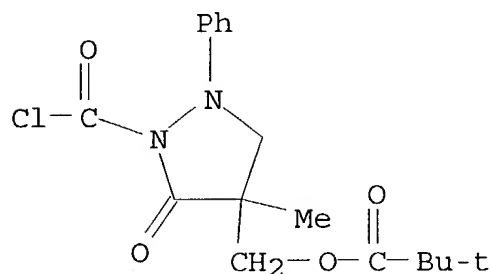
AB Disclosed is a color **silver halide photog.** film comprising a support bearing: (1) a light sensitive **silver halide** emulsion layer; (2) a nitrogen heterocycle with a min. of three heteroatoms that does not react with oxidized developer, does not contain free thiol substituents, and has a ClogP sufficient to increase the **photog.** speed of said element compared to the same element without the compd., said heterocycle compd. located either in said light sensitive layer or in a layer adjacent to it; and (3) a light reflecting **silver halide** material; provided that the heterocycle compd. and the light reflecting material are located either (a) in different layers of the element located close enough to each other so that a super-additive speed increase is realized or (b) in the same light sensitive layer. The invention provides improved light sensitivity and **photog.** speed increase.

IT 279686-36-1P

(in prepn. of **photog.** coupler)

RN 279686-36-1 HCA

CN Propanoic acid, 2,2-dimethyl-, [2-(chlorocarbonyl)-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)

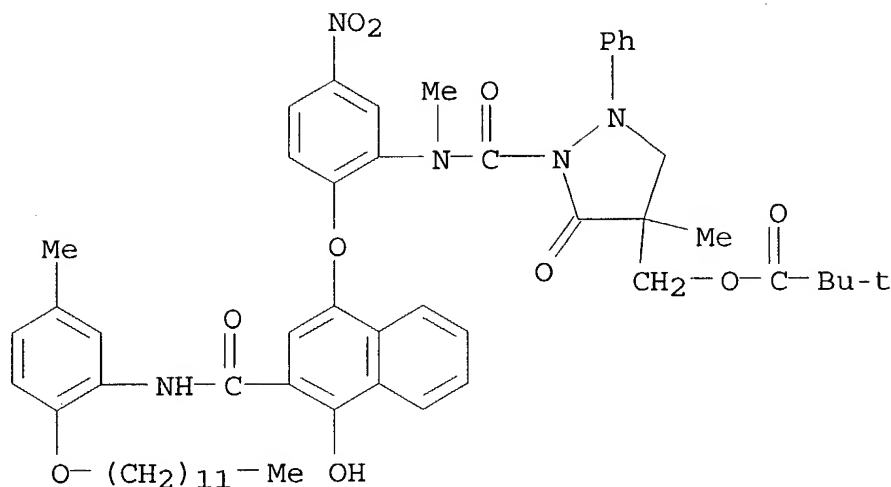


IT 279686-43-0P

(**photog.** coupler; color **photog.** film contg. speed improving compd. in combination with reflecting material)

RN 279686-43-0 HCA

CN Propanoic acid, 2,2-dimethyl-, [2-[[[2-[[3-[[[2-(dodecyloxy)-5-methylphenyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



IT 155124-15-5, Silver bromide iodide
 (reflecting material; color **photog.** film contg. speed
 improving compd. in combination with reflecting material)
 RN 155124-15-5 HCA
 CN Silver bromide iodide (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
I	x	14362-44-8
Br	x	10097-32-2
Ag	x	7440-22-4

IC ICM G03C001-10
 ICS G03C001-34; G03C001-42
 NCL 430502000
 CC **74-2** (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST color **photog** film reflecting material speed improving
 compd
 IT **Photographic** development
Photographic films
 (color; color **photog.** film contg. speed improving
 compd. in combination with reflecting material)
 IT 280575-67-9P, 6-(Tetradecyloxy)purine
 (color **photog.** film contg. speed improving compd. in
 combination with reflecting material)
 IT 81430-10-6P
 (in prepn. of **photog.** coupler)
 IT 13047-13-7, 4-(Hydroxymethyl)-4-methyl-1-phenyl-3-pyrazolidinone
 279686-37-2
 (in prepn. of **photog.** coupler)
 IT **279686-36-1P**
 (in prepn. of **photog.** coupler)

IT 279686-43-0P

(photog. coupler; color photog. film contg.
speed improving compd. in combination with reflecting material)

IT 155124-15-5, Silver bromide iodide

(reflecting material; color photog. film contg. speed
improving compd. in combination with reflecting material)

IT 280575-77-1

(speed improving compd.; color photog. film contg.
speed improving compd. in combination with reflecting material)

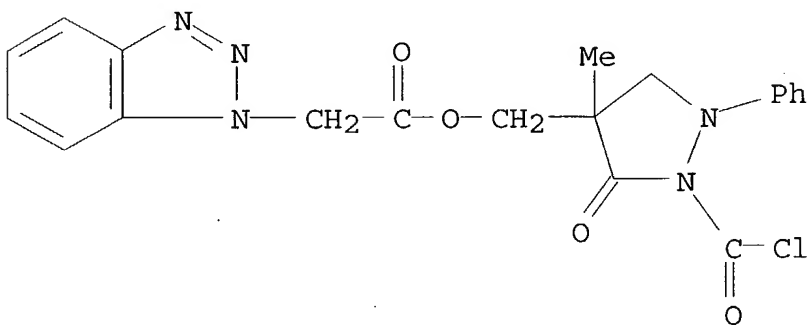
L45 ANSWER 3 OF 14 HCA COPYRIGHT 2003 ACS

133:96718 **Photographic** recording material for accelerated
development. Lunt, Sharon R.; Sutton, Scott C.; Friedrich, Louis
E.; Southby, David T. (Eastman Kodak Company, USA). Eur. Pat. Appl.
EP 1016913 A1 20000705, 47 pp. DESIGNATED STATES: R: AT, BE, CH,
DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV,
FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 1999-204273
19991213. PRIORITY: US 1998-224224 19981230.AB This invention relates to a **photog.** element comprising a
support and at least two **silver halide** emulsion
layers wherein at least one emulsion layer contains an electron
transfer agent releasing compd. represented by the formula:
CAR-(L)_n-ETA (wherein a carrier moiety which is capable of
releasing -(L)_n-ETA on reaction with oxidized developing agent; L is
a divalent linking group, n is 0, 1 or 2; and ETA is a releasable
1-aryl-3-pyrazolidinone electron transfer agent having a calcd. log
partition coeff. (c log P) greater than or equal
to 2.40 bonded to L or CAR though either the nitrogen atom in the
2-position or the oxygen attached to the 3-position of the
pyrazolidinone ring).

IT 279686-42-9P 280754-53-2P

(development accelerating agent in photog.
silver halide emulsion)

RN 279686-42-9 HCA

CN 1H-Benzotriazole-1-acetic acid, [2-(chlorocarbonyl)-4-methyl-3-oxo-1-
phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)

RN 280754-53-2 HCA

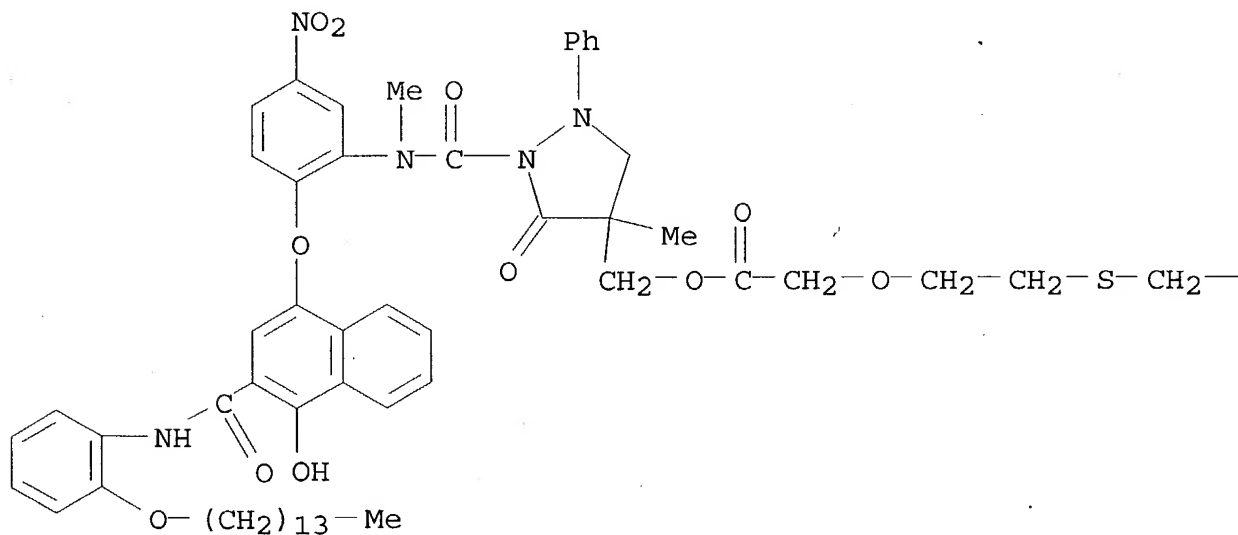
CN Butanoic acid, 3-methyl-, [2-[[[2-[[3-[[[2-(dodecyloxy)-5-
methylphenyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]oxy]-5-

CC(CCCCCCCCCCCC)Oc1ccc(NC(=O)c2ccc(O)c3ccccc23)c(C)c1.Oc1ccc(Oc2ccc([N+](=O)[O-])cc2)cc1.CC1(C)C(=O)N(C1C(=O)N(C2=CC=CC=C2)C3=CC=CC=C3)C(=O)N(C)C

(development accelerating agent in photog.
silver halide emulsion)

CN Acetic acid, [2-[[[2-(methylthio)ethyl]thio]ethoxy]-, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



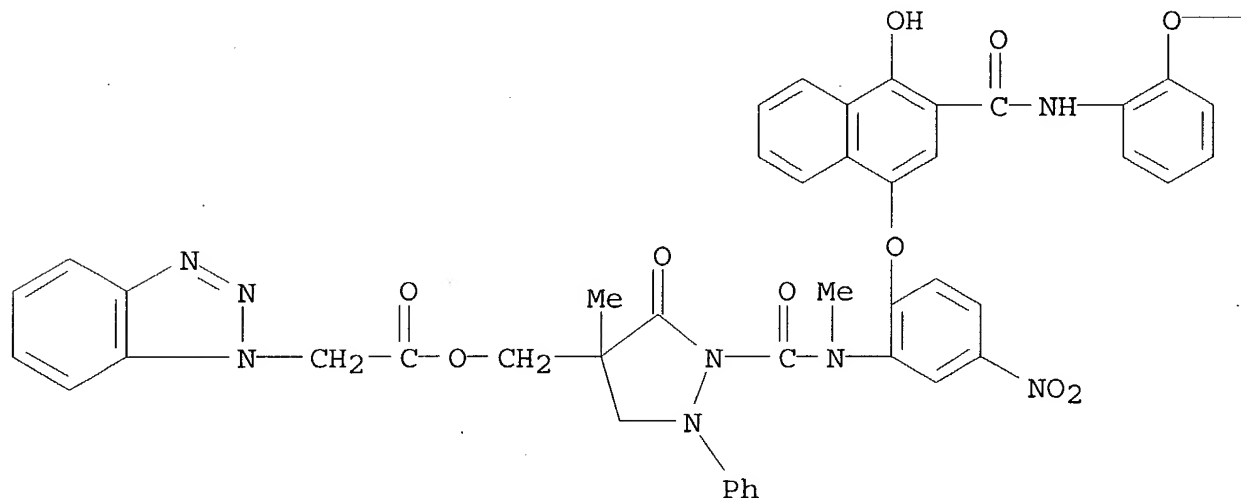
PAGE 1-B

—CH₂—SMe

RN 279686-45-2 HCA

CN 1H-Benzotriazole-1-acetic acid, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



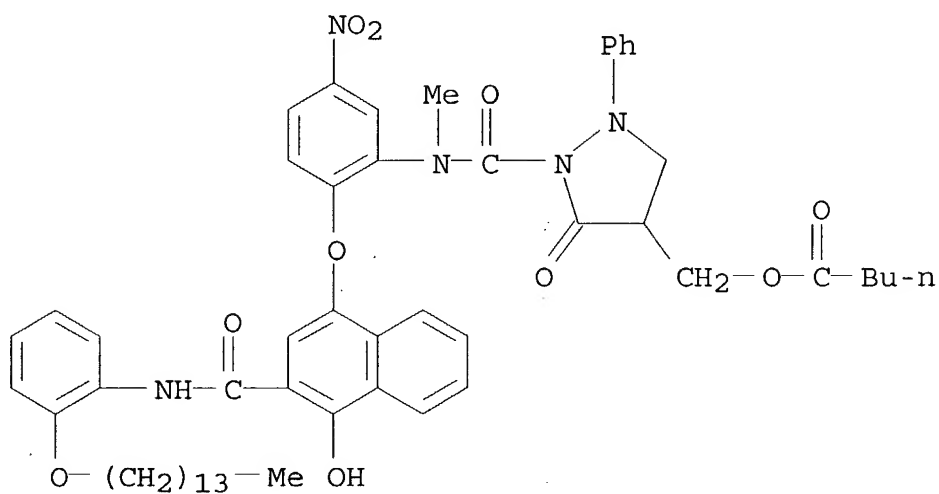
PAGE 1-B

—(CH₂)₁₃—Me

RN 280754-48-5 HCA

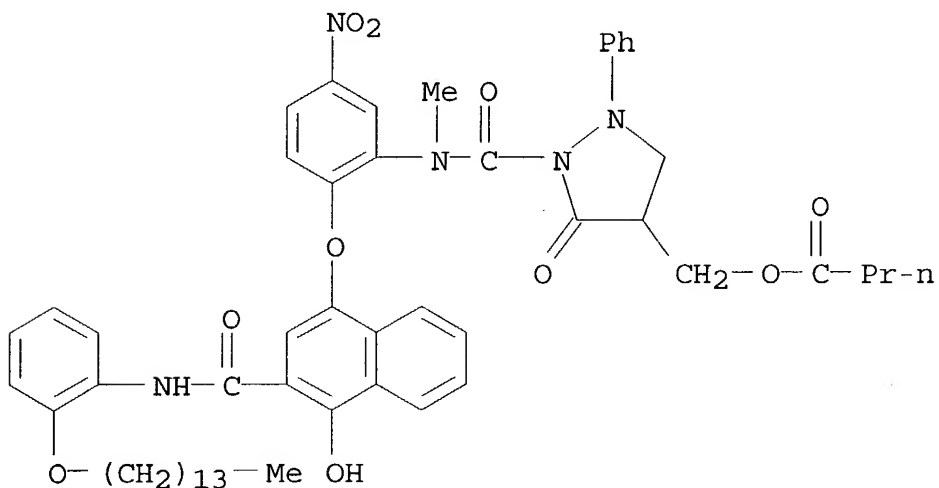
CN Pentanoic acid, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-3-oxo-1-phenyl-4-

pyrazolidinyl)methyl ester (9CI) (CA INDEX NAME)



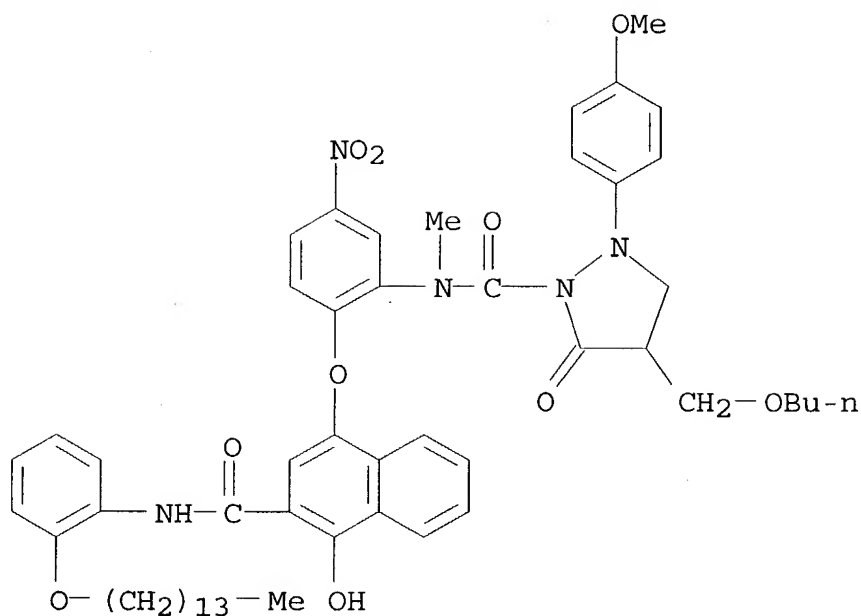
RN 280754-49-6 HCA

CN Butanoic acid, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-3-oxo-1-phenyl-4-pyrazolidinyl)methyl ester (9CI) (CA INDEX NAME)



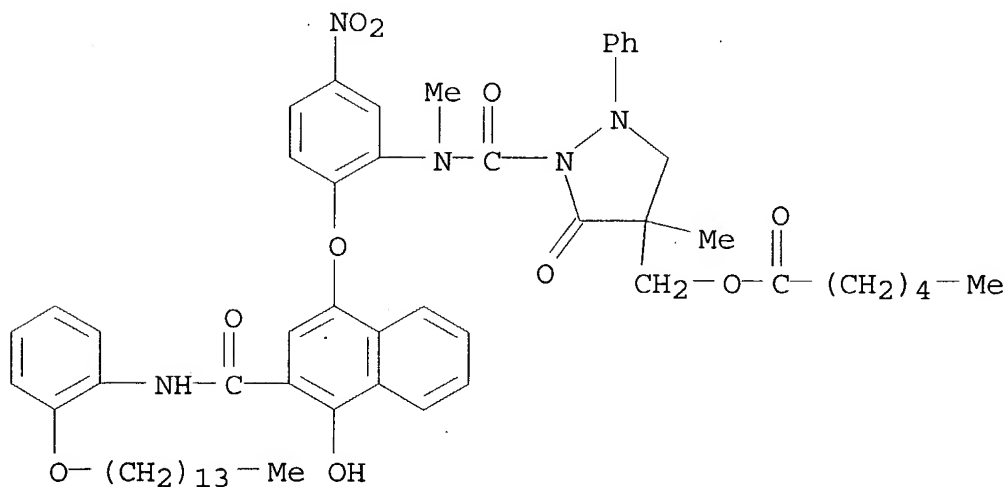
RN 280754-50-9 HCA

CN 1-Pyrazolidinecarboxamide, 4-(butoxymethyl)-N-[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]-2-(4-methoxyphenyl)-N-methyl-5-oxo- (9CI) (CA INDEX NAME)



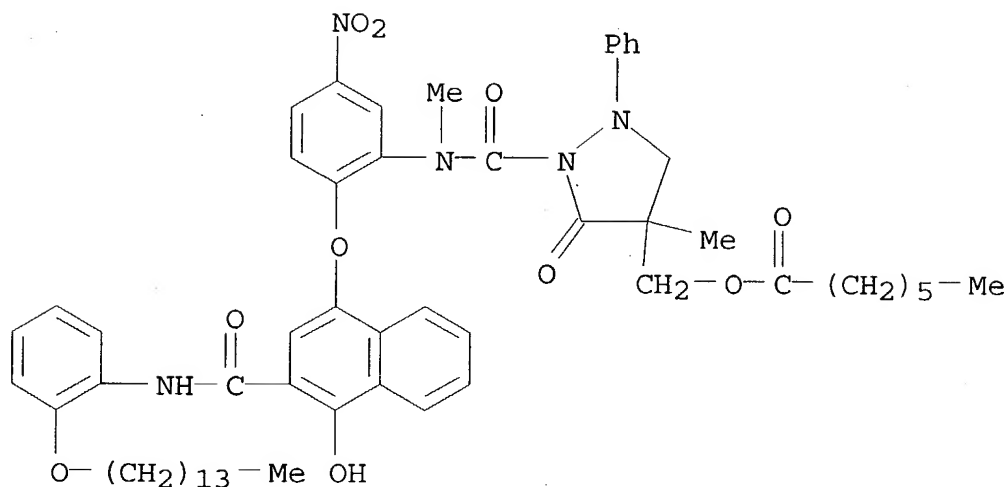
RN 280754-51-0 HCA

CN Hexanoic acid, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylester]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



RN 280754-52-1 HCA

CN Heptanoic acid, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylester]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



- IC ICM G03C007-305
 CC **74-2** (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST **photog** recording material **silver halide**
 emulsion layer
 IT **Photographic** emulsions
 Photographic emulsions
 (holog.; **photog.** recording material for accelerated
 development)
 IT Holography
 Holography
 (**photog.** emulsions; **photog.** recording
 material for accelerated development)
 IT 75-44-5, Phosgene 3282-30-2, Pivaloyl chloride 4144-64-3,
 1H-Benzotriazole-1-acetic acid 65419-18-3 126001-73-8
 279686-37-2 279686-38-3
 (development accelerating agent in **photog.**
 silver halide emulsion)
 IT 279686-42-9P 280754-53-2P
 (development accelerating agent in **photog.**
 silver halide emulsion)
 IT 279686-44-1P 279686-45-2P 280754-48-5P
 280754-49-6P 280754-50-9P 280754-51-0P
 280754-52-1P
 (development accelerating agent in **photog.**
 silver halide emulsion)

L45 ANSWER 4 OF 14 HCA COPYRIGHT 2003 ACS
 133:81527 **Photographic** recording material for accelerated
 development. Friday, James A.; Lunt, Sharon R.; Sutton, Scott C.
 (Eastman Kodak Company, USA). Eur. Pat. Appl. EP 1016912 A2
 20000705, 45 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR,
 GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO.
 (English). CODEN: EPXXDW. APPLICATION: EP 1999-204272 19991213.

PRIORITY: US 1998-224230 19981230.

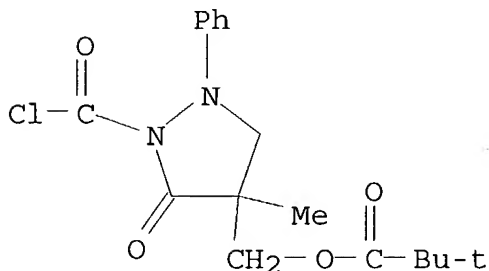
AB This invention relates to a **photog.** element comprising a support and .gtoreq.2 **Ag halide** emulsion layers wherein .gtoreq.1 emulsion layer contains an electron transfer agent releasing compd. represented by the formula: CAR-(L)n-ETA wherein: CAR is a carrier moiety which is capable of releasing and -(L)n-ETA on reaction with oxidized developing agent; L is a divalent linking group, n is 0, 1 or 2; and ETA is a releasable 1-aryl-3-pyrazolidinone electron transfer agent having a calcd. log **partition coeff.** (c log P) greater than or equal to 2.40 bonded to L or CAR through either the N atom in the 2-position or the O attached to the 3-position of the pyrazolidinone ring; and .gtoreq.1 sol mercaptan releasing compd.

IT 279686-36-1P 279686-40-7P 279686-42-9P

(intermediate in prepn. of electron transfer agent releasing compd. for fast-developing **photog.** recording films)

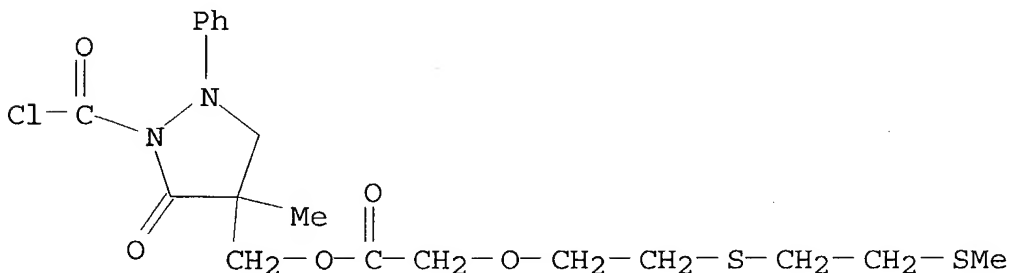
RN 279686-36-1 HCA

CN Propanoic acid, 2,2-dimethyl-, [2-(chlorocarbonyl)-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



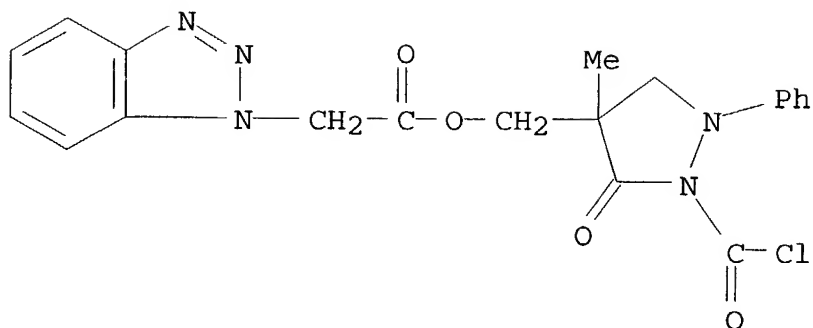
RN 279686-40-7 HCA

CN Acetic acid, [2-[[2-(methylthio)ethyl]thio]ethoxy]-, [2-(chlorocarbonyl)-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



RN 279686-42-9 HCA

CN 1H-Benzotriazole-1-acetic acid, [2-(chlorocarbonyl)-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)

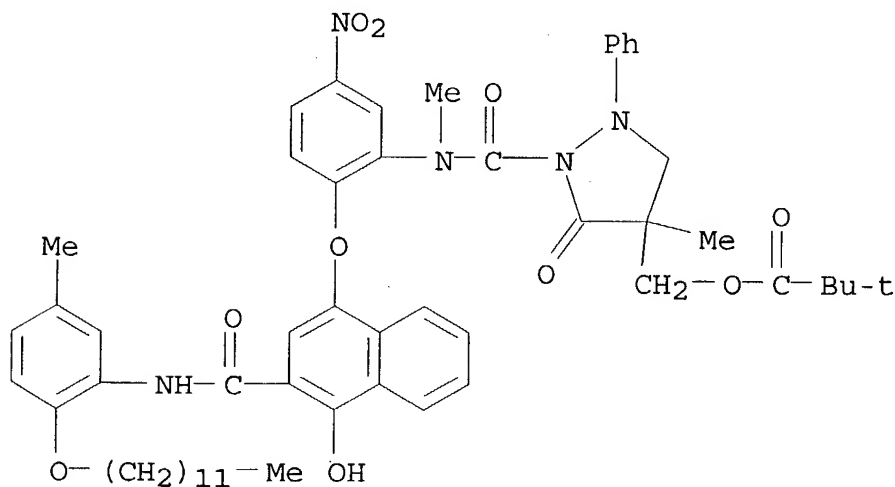


IT 279686-43-0P 279686-44-1P 279686-45-2P

(prepn. of electron transfer agent releasing compd. for
fast-developing photog. recording films)

RN 279686-43-0 HCA

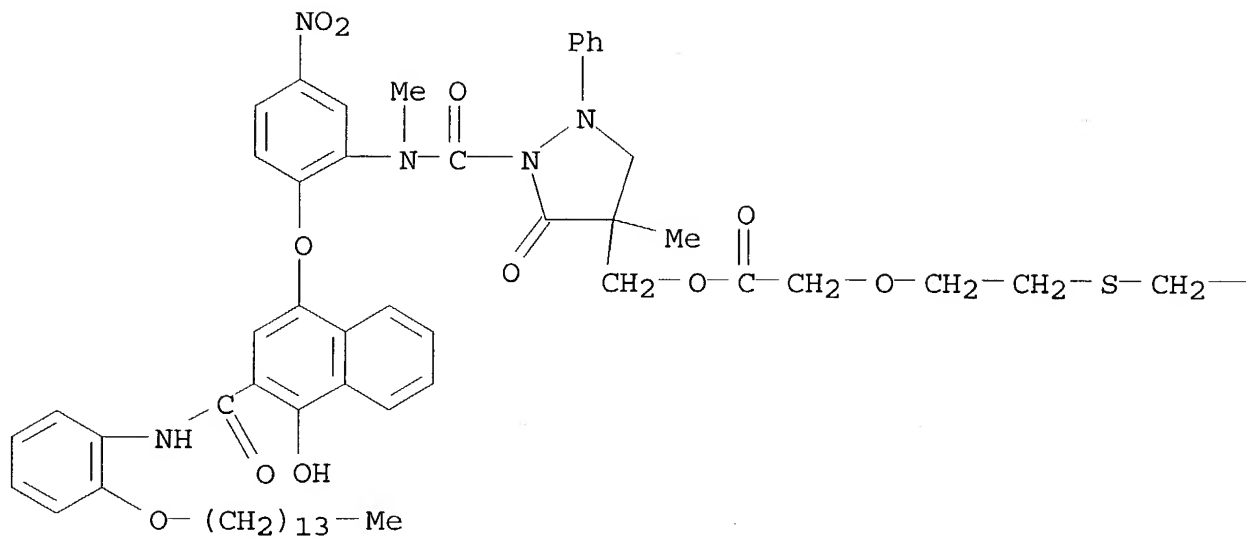
CN Propanoic acid, 2,2-dimethyl-, [2-[[[2-[[3-[[[2-(dodecyloxy)-5-methylphenyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



RN 279686-44-1 HCA

CN Acetic acid, [2-[[2-(methylthio)ethyl]thio]ethoxy]-, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



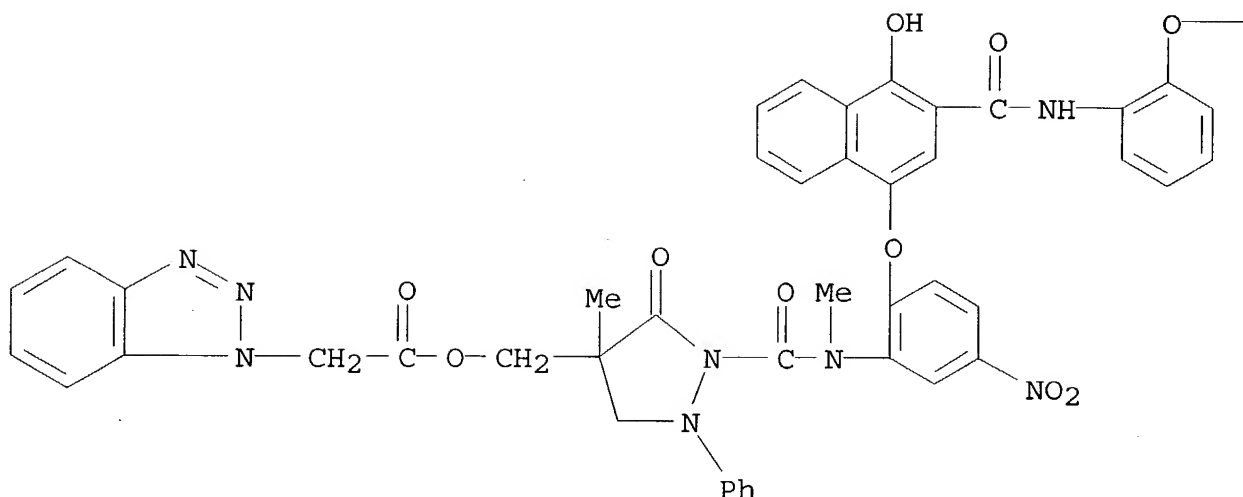
PAGE 1-B

— CH_2 — SMe

RN 279686-45-2 HCA

CN 1H-Benzotriazole-1-acetic acid, [2-[[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₁₃—Me

IC ICM G03C007-305
 CC **74-2** (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST **photog** recording accelerated development aryl
 pyrazolidinone mercaptan electron transfer
 IT Electron transfer
 Photographic films
 Photoimaging materials
 (fast-developing **photog.** recording films made of
 multiple layers contg.)
 IT 903-19-5 23568-98-1 51599-31-6 52049-36-2 61600-15-5
 63217-29-8 65293-90-5 65749-35-1 65749-35-1D, derivs.
 93966-57-5 130016-98-7 143727-19-9 150307-10-1 150779-67-2
 165662-39-5 167684-63-1 168689-49-4 173923-82-5 220039-40-7
 264873-87-2 279686-46-3
 (fast-developing **photog.** recording films made of
 multiple layers contg.)
 IT 4144-64-3P, 1H-Benzotriazole-1-acetic acid 81430-10-6P
 126001-73-8P **279686-36-1P** 279686-37-2P 279686-38-3P
 279686-39-4P **279686-40-7P** 279686-41-8P
279686-42-9P
 (intermediate in prepn. of electron transfer agent releasing
 compd. for fast-developing **photog.** recording films)
 IT **279686-43-0P 279686-44-1P 279686-45-2P**
 (prepn. of electron transfer agent releasing compd. for
 fast-developing **photog.** recording films)

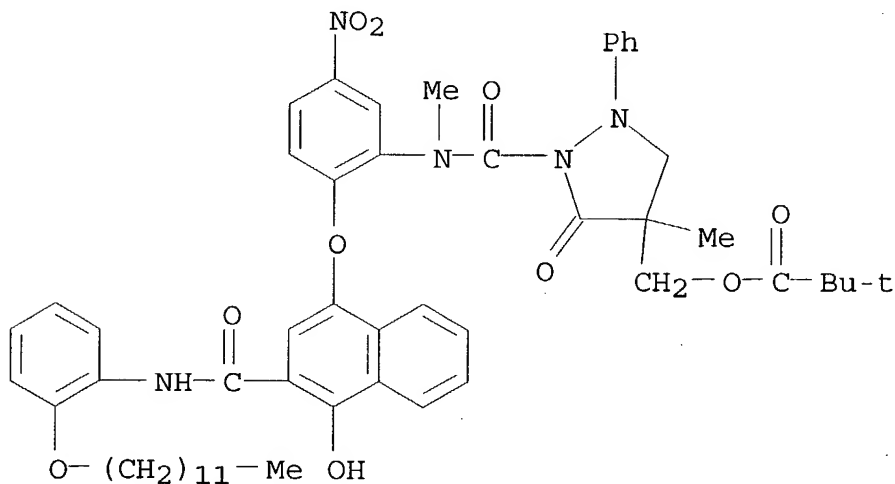
(prepn. of electron transfer agent releasing compd. for fast-developing **photog.** recording material using)

133:51102 Color **photographic** element. Maskasky, Joe Edward;
Reed, Kenneth James; Scaccia, Victor P.; Friday, James Anthony
(Eastman Kodak Company, USA). Eur. Pat. Appl. EP 1011026 A1
20000621, 58 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR,
GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO.
(English). CODEN: EPXXDW. APPLICATION: EP 1999-204142 19991206.
PRIORITY: US 1998-213639 19981217.

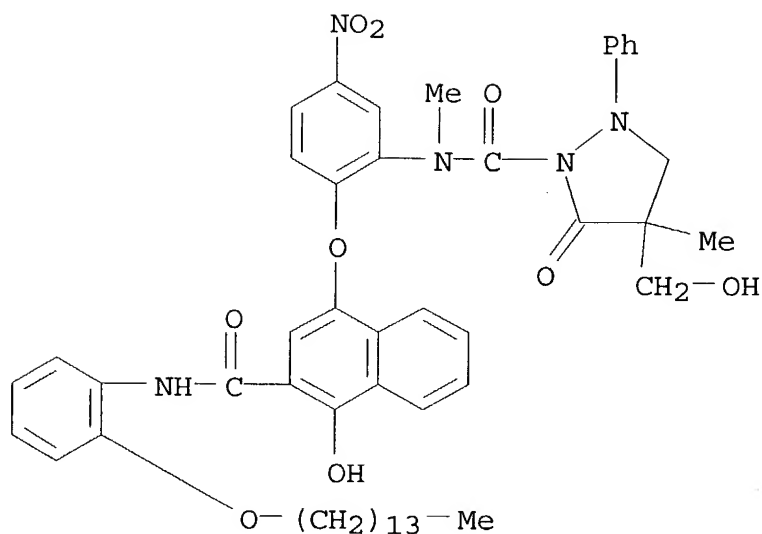
IT 276244-84-9

(electron transfer agent-releasing
coupler for high-bromide color photog.
emulsions)

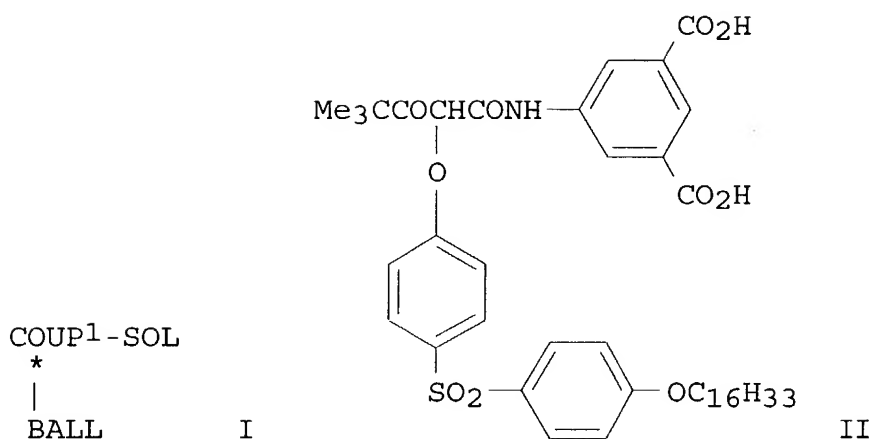
CN Propanoic acid, 2,2-dimethyl-, [2-[[[2-[[3-[[[2-(dodecyloxy)phenyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]oxy]-5-nitrophenyl]methylamino]carbonyl]-4-methyl-3-oxo-1-phenyl-4-pyrazolidinyl]methyl ester (9CI) (CA INDEX NAME)



- IC ICM G03C007-30
ICS G03C001-12; G03C001-04; G03C001-005; G03C001-10
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST color **photog** element **electron transfer**
agent releasing **coupler**; cationic starch peptizer
color **photog** element
- IT **Photographic** emulsions
(color; contg. **electron transfer**
agent-releasing **couplers** and cationic starch
peptizers)
- IT **Photographic couplers**
(**electron transfer agent**-releasing;
for color **photog.** materials for improved speed)
- IT **Photographic sensitizers**
(fragmentable electron-donating compds. as)
- IT **276244-84-9**
(**electron transfer agent**-releasing
coupler for high-bromide color **photog.**
emulsions)
- IT 275824-42-5
(fragmentable electron-donating sensitizer for high-bromide color
photog. emulsions)
- IT 56780-58-6, Sta-lok 140
(peptizer for high-bromide color **photog.** emulsions)
- L45 ANSWER 6 OF 14 HCA COPYRIGHT 2003 ACS
130:131717 **Photographic** color negative film. Buescher, Ralf;
Bell, Peter; Borst, Hans-Ulrich; Rosenhahn, Lothar; Siegel, Joerg;
Stetzer, Thomas (Agfa-Gevaert A.-G., Germany). Ger. Offen. DE
19733524 A1 19990204, 14 pp. (German). CODEN: GWXXBX.
APPLICATION: DE 1997-19733524 19970802.
- AB The color neg. film comprises a support, at least 1 blue-sensitive,
yellow coupler-contg. **Ag halide** emulsion layer,
at least 1 green-sensitive, magenta coupler-contg. **Ag**
halide emulsion layer and at least 1 red-sensitive, cyan
coupler-contg. **Ag halide** emulsion layer with
different sensitivities, the most sensitive layer contains no more
than 0.05 mmol/m² coupler, and its adjacent layer contains ETAR and
ACR couplers. The film shows improved sensitivity, gradation and
granularity.
- IT **125981-23-9**
(ETAR coupler in **photog.** color neg. film with improved
sensitivity, gradation, and granularity)
- RN 125981-23-9 HCA
- CN 1-Pyrazolidinecarboxamide, 4-(hydroxymethyl)-N-[2-[[4-hydroxy-3-[[[2-
(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-
nitrophenyl]-N,4-dimethyl-5-oxo-2-phenyl- (9CI) (CA INDEX NAME)



- IC ICM G03C007-305
ICS G03C007-26; G03C001-76
ICA G03C001-07; G03C001-08
CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
ST color neg **photog** film coupler
IT **Photographic** films
(color, neg.; **photog.** color neg. film with improved
sensitivity, gradation, and granularity)
IT **Photographic** couplers
(**photog.** color neg. film with improved sensitivity,
gradation, and granularity)
IT 167307-79-1
(ACR coupler in **photog.** color neg. film with improved
sensitivity, gradation, and granularity)
IT 125981-23-9
(ETAR coupler in **photog.** color neg. film with improved
sensitivity, gradation, and granularity)
- L45 ANSWER 7 OF 14 HCA COPYRIGHT 2003 ACS
127:240946 Silver halide color photographic material containing color
contamination preventing agent. Kawashima, Yasuhiko; Fukazawa,
Fumiyoshi (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 09204024
A2 19970805 Heisei, 48 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1996-11116 19960125.
- GI



AB The title material contains a Ag halide emulsion contg. tabular Ag halide grains having .gtoreq.2 phases different in AgI content inside of them, in which the AgI content in the max. AgI content phase is <15 mol% and which use Ag halide fine grains upon grain growth, at .gtoreq.50% of the total projected area and a compd. I [COUP1 = coupler mother nucleus having coupling part (the asterisk of the formula); BALL = group releasing upon reaction of with oxidized color developing agents, and is an anti-diffusive group having a size or a shape so as to make I anti-diffusive; SOL = sol. group that combines at non-coupling part of COUP1 and gives transferability so that the coupling product formed upon the above coupling reaction effuses from the material upon color development or the following treatments]. The material shows high sensitivity and improved storage stability. Thus, a multilayer color photog. film was prepd. by using 2 green-sensitive layers contg. an emulsion of tabular Ag(Br,I) grains having 3 phases different in AgI (AgI content 2, 8.5, and 3 mol %) and II and a yellow filter layer contg. II.

IT 155124-15-5, Silver bromide iodide
(photog. emulsion contg. silver iodide content-controlled tabular grains)

RN 155124-15-5 HCA

CN Silver bromide iodide (9CI) (CA INDEX NAME)

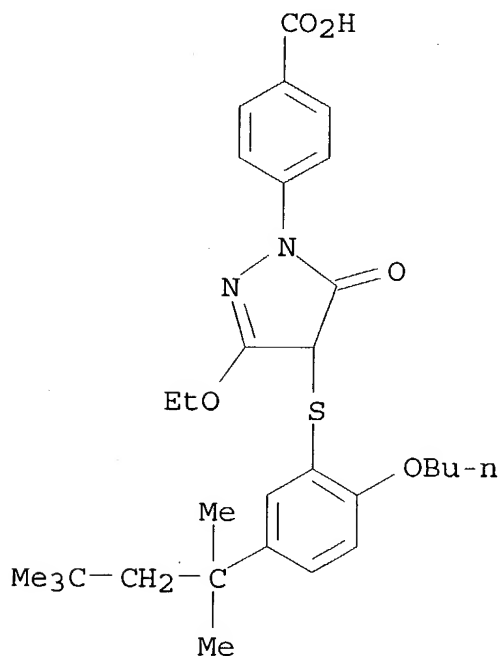
Component	Ratio	Component Registry Number
I	x	14362-44-8
Br	x	10097-32-2
Ag	x	7440-22-4

IT 111631-55-1

(photog. film contg. color stain preventing agent)

RN 111631-55-1 HCA

CN Benzoic acid, 4-[4-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-3-ethoxy-4,5-dihydro-5-oxo-1H-pyrazol-1-yl]- (9CI) (CA INDEX NAME)



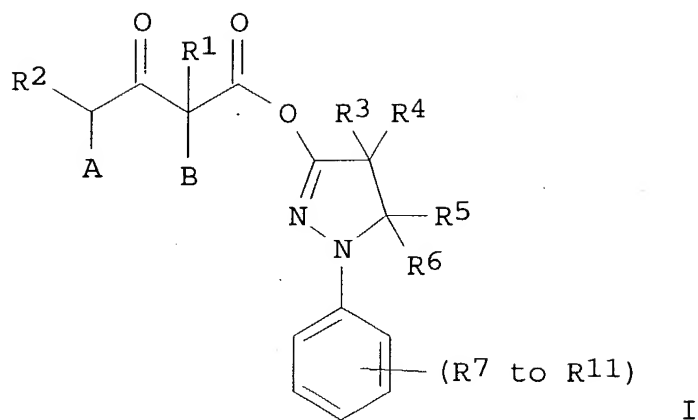
IC ICM G03C007-305
ICS G03C001-015; G03C001-035; G03C001-09; G03C007-00; G03C007-392
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT **155124-15-5**, Silver bromide iodide
(photog. emulsion contg. silver iodide content-controlled tabular grains)
IT 6129-75-5 91377-30-9 91387-42-7 111631-47-1
111631-55-1 111989-06-1 114210-78-5 162784-18-1
195253-69-1 195253-70-4 195253-71-5 195253-72-6 195253-73-7
195253-74-8
(photog. film contg. color stain preventing agent)

L45 ANSWER 8 OF 14 HCA COPYRIGHT 2003 ACS

124:71500 **Photographic silver halide**

colour material.. Tsoi, Siu Chung (Kodak, Ltd., UK; Eastman Kodak Co.). Eur. Pat. Appl. EP 679942 A1 19951102, 18 pp. DESIGNATED STATES: R: DE, FR, GB. (English). CODEN: EPXXDW. APPLICATION: EP 1995-201086 19950427. PRIORITY: GB 1994-8530 19940429.

GI

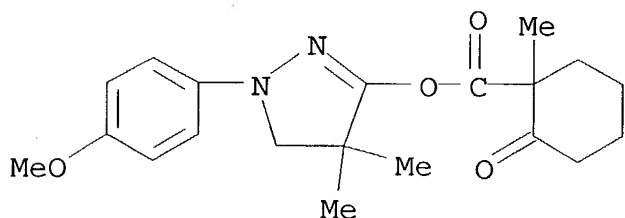


AB The color **photog.** material comprises .gtoreq.1 Ag **halide** emulsion layer having assocd. therewith a dye **image-forming coupler** and contains in a layer thereof I [R1 = alkyl, R2-6 = H, alkyl or substituted alkyl with the proviso that when one or both of R5 or R6 are H, R3 and R4 must not be H and vice versa; R7-11 = H, alkyl, alkoxy; A = H or alkyl; B is alkyl or, together with the atoms to which they are attached A and B complete an carbocyclic or heterocyclic ring, or, when A and B are not linked together, A and R2 may together complete an arom. or non-arom. carbocyclic ring or an arom. or non-arom. heterocyclic ring, with the proviso that if R7-11 are H then R3 and R4 are not Me or hydroxymethyl.].

IT 172262-03-2P
(blocked **electron transfer agent**
for **photog.** material)

RN 172262-03-2 HCA

CN Cyclohexanecarboxylic acid, 1-methyl-2-oxo-, 4,5-dihydro-1-(4-methoxyphenyl)-4,4-dimethyl-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-305

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

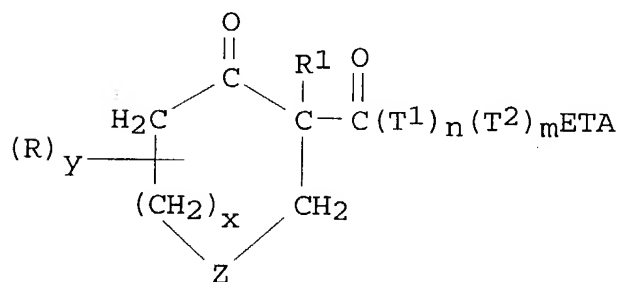
ST **photog** color material **electron transfer agent**

IT **Photographic films**

(blocked electron transfer agent
contg.)
IT 172262-03-2P
(blocked electron transfer agent
for photog. material)

L45 ANSWER 9 OF 14 HCA COPYRIGHT 2003 ACS
124:71499 Processing of **photographic silver**
halide color materials. Tsoi, Siu Chung; Twist, Peter
Jeffery; Proehl, Gary S. (Kodak, Ltd., UK; Eastman Kodak Co.). Eur.
Pat. Appl. EP 679943 A1 19951102, 31 pp. DESIGNATED STATES: R: DE,
FR, GB. (English). CODEN: EPXXDW. APPLICATION: EP 1995-201087
19950427. PRIORITY: GB 1994-8531 19940429.

GI

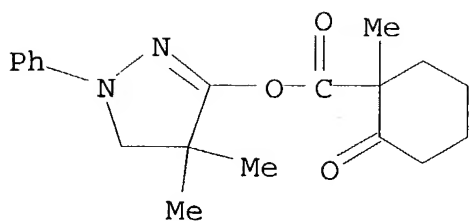


AB A process of processing an imagewise exposed color **photog.**
material comprising .gtoreq.1 **Ag halide** emulsion
layer having assocd. therewith a dye **image-forming**
coupler and which contains in a layer thereof I [T1,2 =
releasable timing groups; n, m = 0 or 1; **ETA** = group which
is released as an **electron transfer**
agent; x = 0-2; R = alkyl, aryl, **photog.** ballast
group; R1 = alkyl; Z is specified and located at any ring position
not adjacent to the carbonyl group; Y = 0-3] which release an
electron transfer agent (ETA)
under alk. conditions, includes the step of treating the material in
an alk. color developer soln. The preferred **ETA**'s are
pyrazolidinones of a type which reduce sensitometric variability in
the developed color **image** in both high and low activity
conditions.

IT 134519-31-6 172262-02-1 172262-03-2
172262-04-3 172262-05-4
(blocked electron transfer agent
for photog. material)

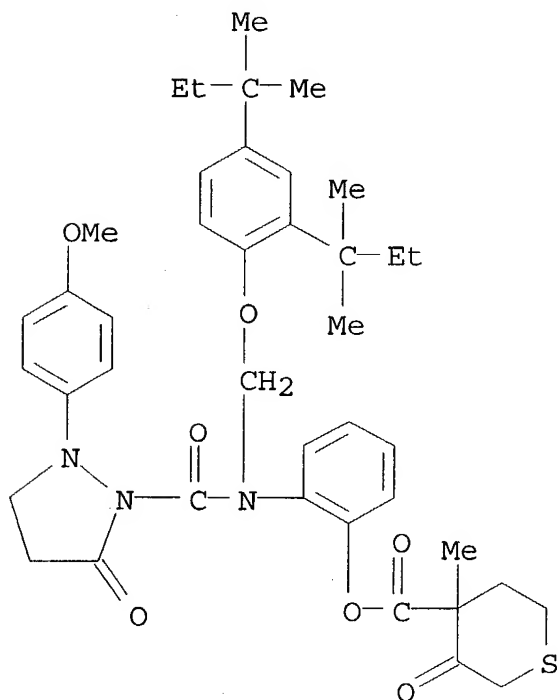
RN 134519-31-6 HCA

CN Cyclohexanecarboxylic acid, 1-methyl-2-oxo-, 4,5-dihydro-4,4-
dimethyl-1-phenyl-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



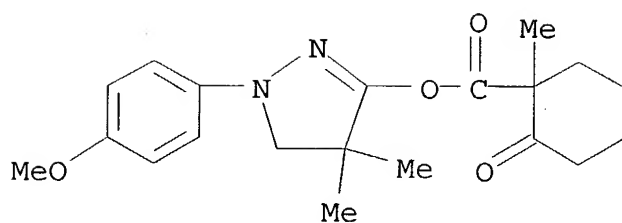
RN 172262-02-1 HCA

CN 2H-Thiopyran-4-carboxylic acid, tetrahydro-4-methyl-3-oxo-,
2-[[[2,4-bis(1,1-dimethylpropyl)phenoxy]methyl][[2-(4-methoxyphenyl)-
5-oxo-1-pyrazolidinyl]carbonyl]amino]phenyl ester (9CI) (CA INDEX
NAME)



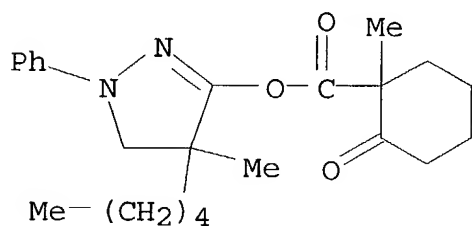
RN 172262-03-2 HCA

CN Cyclohexanecarboxylic acid, 1-methyl-2-oxo-, 4,5-dihydro-1-(4-
methoxyphenyl)-4,4-dimethyl-1H-pyrazol-3-yl ester (9CI) (CA INDEX
NAME)



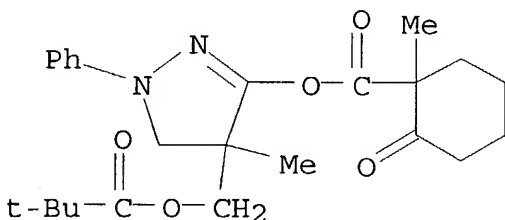
RN 172262-04-3 HCA

CN Cyclohexanecarboxylic acid, 1-methyl-2-oxo-, 4,5-dihydro-4-methyl-4-pentyl-1-phenyl-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 172262-05-4 HCA

CN Cyclohexanecarboxylic acid, 1-methyl-2-oxo-, 4-[(2,2-dimethyl-1-oxopropoxy)methyl]-4,5-dihydro-4-methyl-1-phenyl-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-305

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST photog color processing electron transfer agent

IT Photographic films
(blocked electron transfer agent contg.)IT Photographic processing
(with reduced sensitometric variability)

IT 134519-31-6 172262-02-1 172262-03-2

172262-04-3 172262-05-4

(blocked electron transfer agent for photog. material)

L45 ANSWER 10 OF 14 HCA COPYRIGHT 2003 ACS

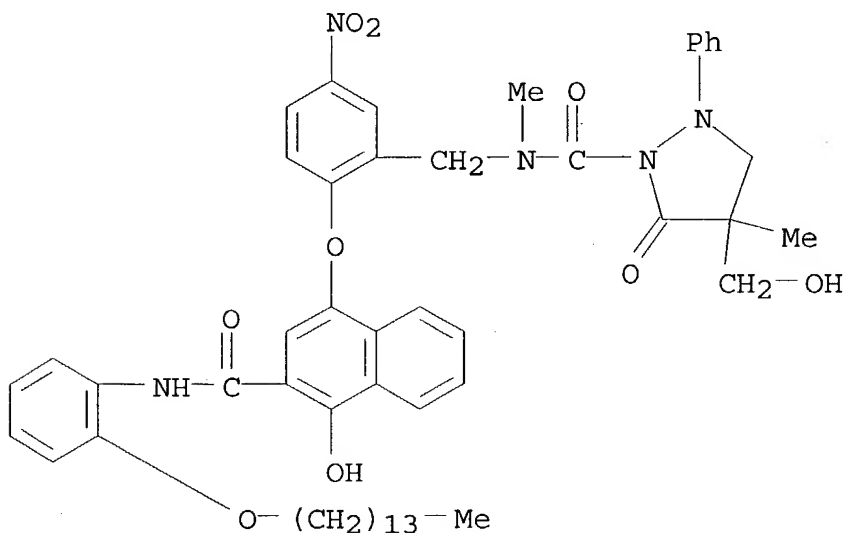
117:261481 High-sensitivity high-contrast color **photographic** material. Obayashi, Keiji; Ichijima, Yasushi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 03209240 A2 19910912 Heisei, 58 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1990-4315 19900111.

AB The title **photog.** material employs an emulsion in which .gtoreq. 40% of the **Ag halide** grains contain **AgI** .gtoreq. 4 mol% and .gtoreq. 1 of the **Ag halide** emulsion layers contains A-(L)n-ETA [A = group releasing-(L)n-ETA upon reaction with oxidized developer; L = group releasing ETA following its sepn. from A; n = 0, 1, 2; ETA = group functioning as electron transfer agent following sepn. from A-(L)n-].

IT **144753-87-7**
(electron transfer agent releasing compd., color **photog** material contg.)

RN 144753-87-7 HCA

CN 2-Naphthalenecarboxamide, 1-hydroxy-4-[2-[[[4-(hydroxymethyl)-4-methyl-5-oxo-2-phenyl-1-pyrazolidinyl]carbonyl]methylamino]methyl]-4-nitrophenoxy]-N-[2-(tetradecyloxy)phenyl]- (9CI) (CA INDEX NAME)



IC ICM G03C007-305

CC **74-2** (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT **Photographic** emulsions

Photographic films

Photographic paper

(color, for high-sensitivity, high-contrast, and superior graininess)

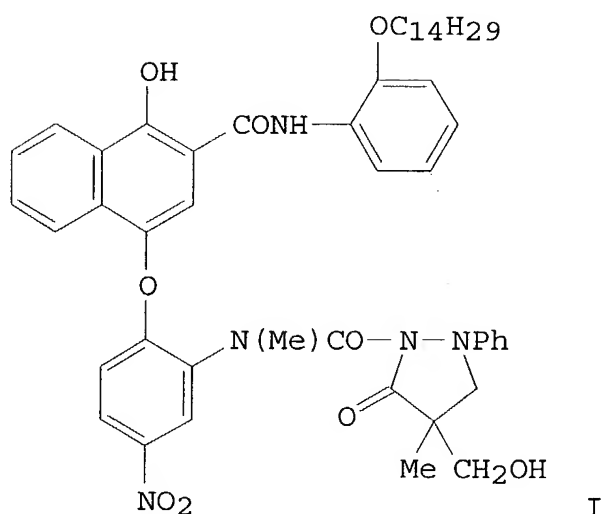
IT 99778-52-6 125981-29-5 144753-86-6 **144753-87-7**

(electron transfer agent releasing compd., color **photog** material contg.)

L45 ANSWER 11 OF 14 HCA COPYRIGHT 2003 ACS

112:242958 **Photographic** recording material containing arylpyrazolidinone-type compound for accelerated development. Platt, Norma Bettina; Michno, Drake Matthew; Steele, David Arnold; Southby, David Thomas (Eastman Kodak Co., USA). Eur. Pat. Appl. EP 347849 A2 19891227, 34 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1989-111226 19890620. PRIORITY: US 1988-209614 19880621.

GI

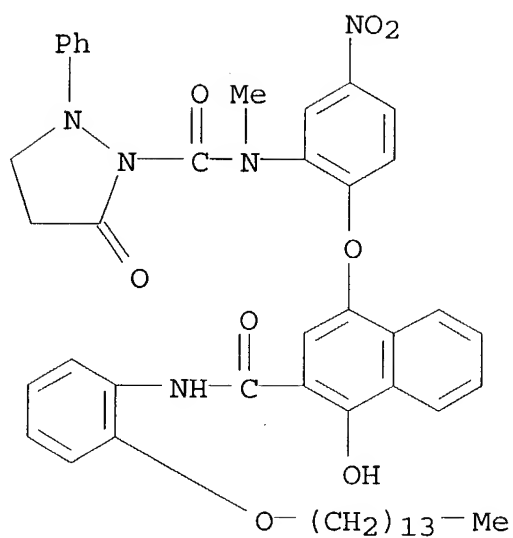


AB In a **photog.** recording material comprising a **Ag halide** emulsion in reactive assocn. with a **coupler**, a DIR compd., and an **electron transfer agent**, the **electron transfer agent** is a 1-aryl-3-pyrazolidinone compd. The above compd. is capable of selective development acceleration for improved **image** quality. Thus, I was prepd. and used in a color **photog.** film to give sharp **images**.

IT 125981-30-8 125981-31-9
(**electron transfer agent**, in color **photog.** film)

RN 125981-30-8 HCA

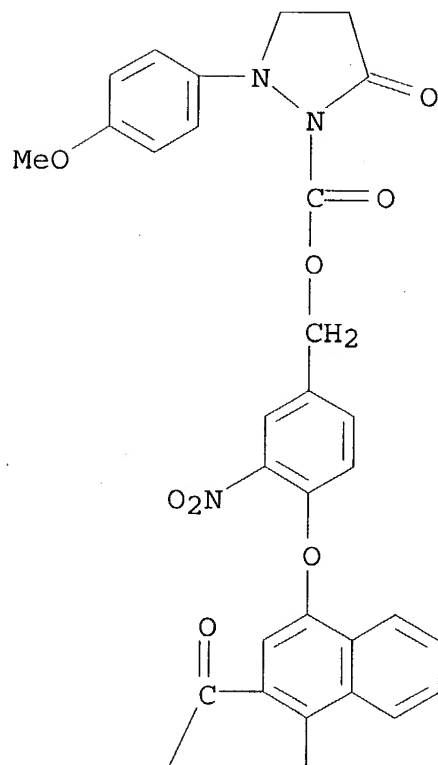
CN 1-Pyrazolidinecarboxamide, N-[2-[[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]-N-methyl-5-oxo-2-phenyl- (9CI) (CA INDEX NAME)



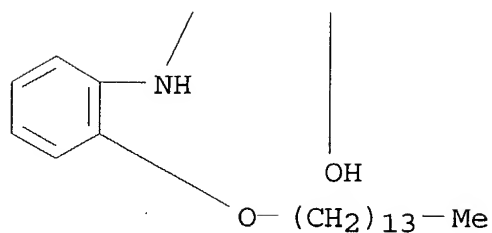
RN 125981-31-9 HCA

CN 1-Pyrazolidinecarboxylic acid, 2-(4-methoxyphenyl)-5-oxo-,
[4-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-
naphthalenyl]oxy]-3-nitrophenyl]methyl ester (9CI) (CA INDEX NAME)

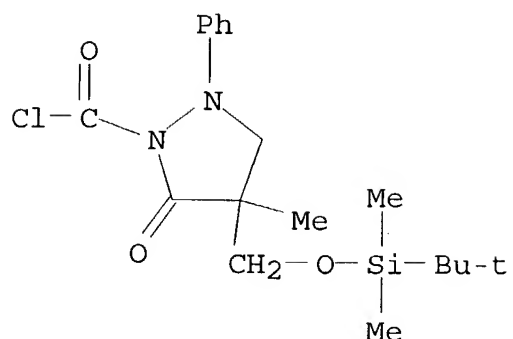
PAGE 1-A



PAGE 2-A

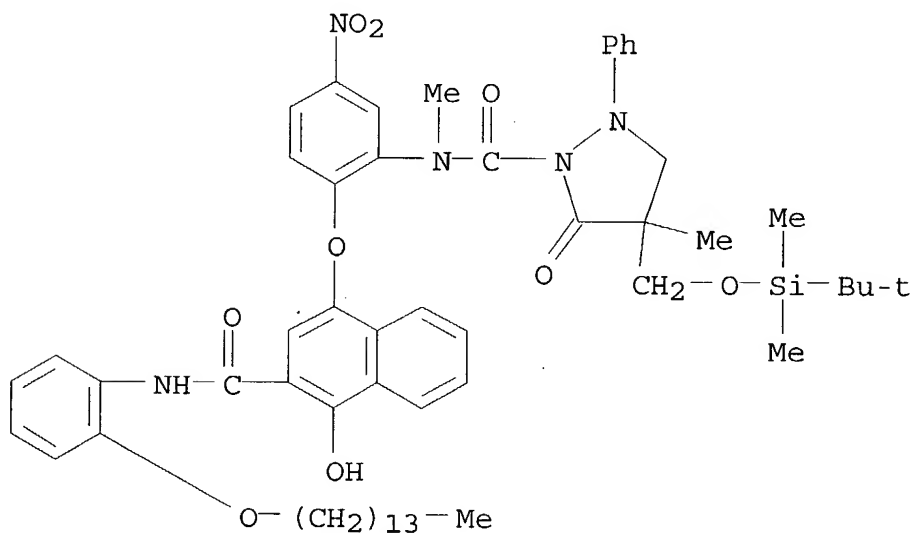


IT 125981-21-7P 125981-22-8P 126001-75-0P
 (prepn. and reaction of, as **electron transfer agent** in color **photog.** film)
 RN 125981-21-7 HCA
 CN 1-Pyrazolidinecarbonyl chloride, 4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-4-methyl-5-oxo-2-phenyl-(9CI) (CA INDEX NAME)



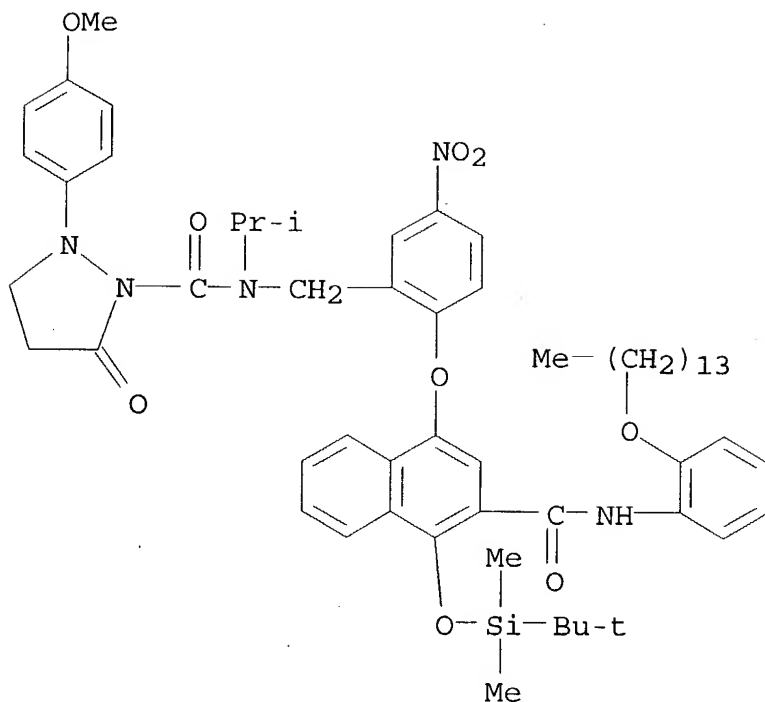
RN 125981-22-8 HCA

CN 1-Pyrazolidinecarboxamide, 4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-N-[2-[[4-hydroxy-3-[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]-N,4-dimethyl-5-oxo-2-phenyl-(9CI) (CA INDEX NAME)



RN 126001-75-0 HCA

CN 1-Pyrazolidinecarboxamide, N-[[2-[[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-3-[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methyl]-2-(4-methoxyphenyl)-N-(1-methylethyl)-5-oxo-(9CI) (CA INDEX NAME)

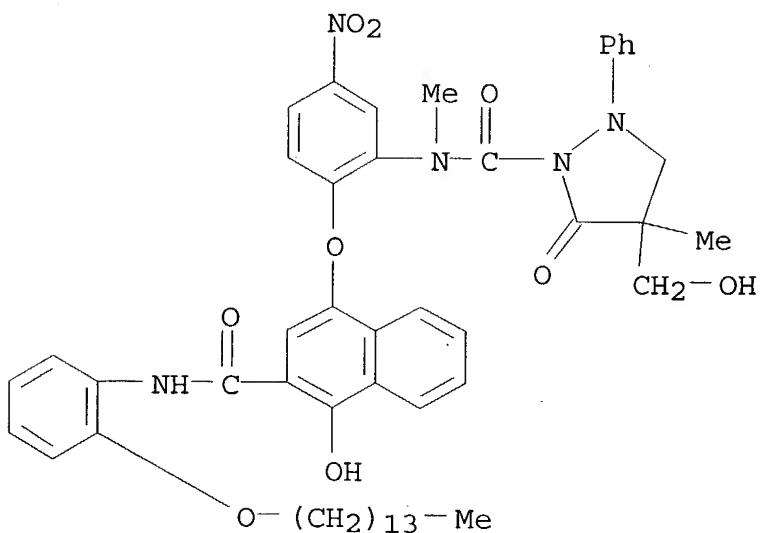


IT 125981-23-9P 125981-28-4P 125981-29-5P
126001-74-9P

(prepn. and use of, as **electron transfer agent** in color **photog.** film)

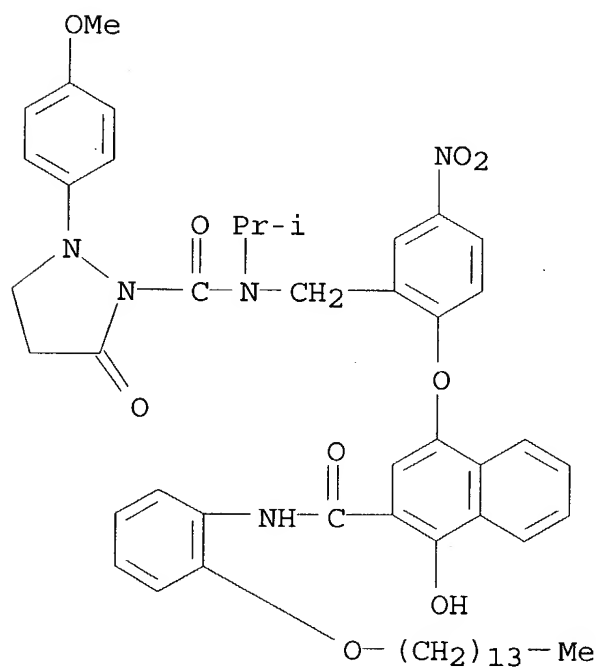
RN 125981-23-9 HCA

CN 1-Pyrazolidinecarboxamide, 4-(hydroxymethyl)-N-[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]-N,4-dimethyl-5-oxo-2-phenyl- (9CI) (CA INDEX NAME)



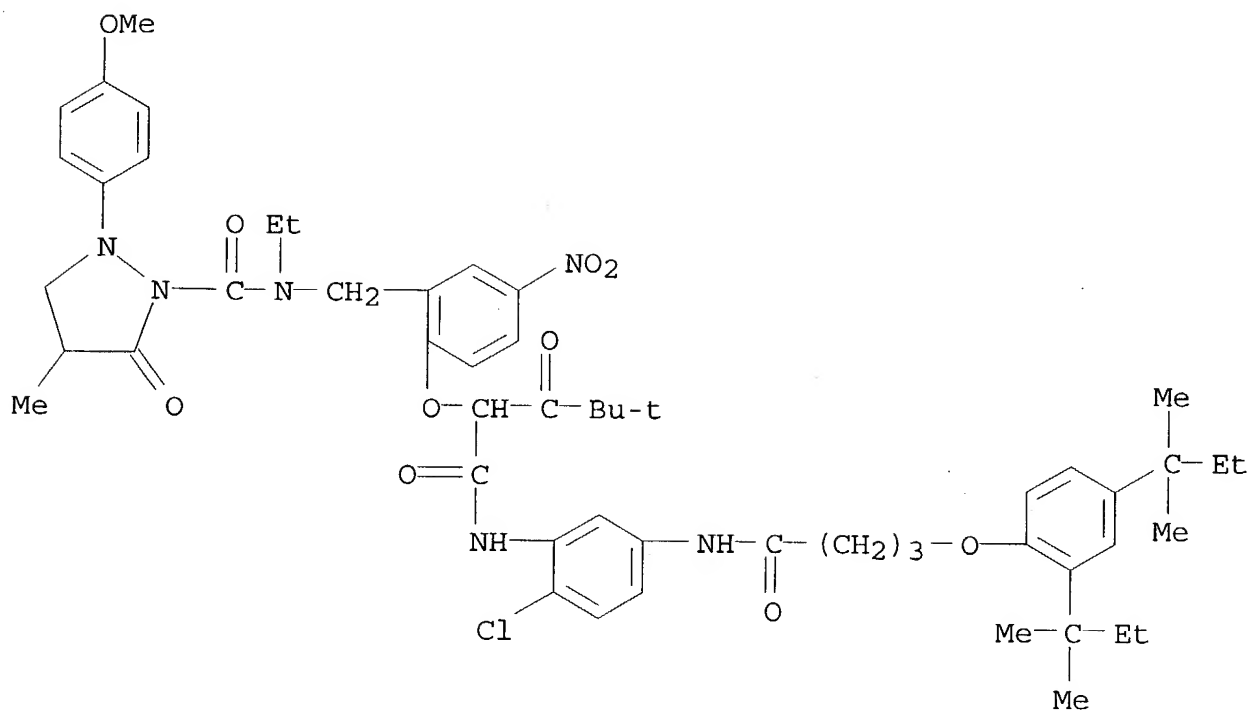
RN 125981-28-4 HCA

CN 1-Pyrazolidinecarboxamide, N-[[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]methyl]-2-(4-methoxyphenyl)-N-(1-methylethyl)-5-oxo-(9CI) (CA INDEX NAME)



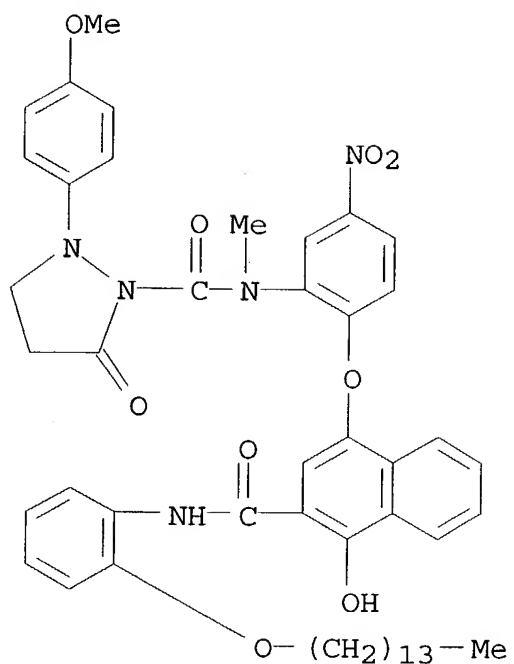
RN 125981-29-5 HCA

CN 1-Pyrazolidinecarboxamide, N-[[2-[1-[[[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]amino]carbonyl]-3,3-dimethyl-2-oxobutoxy]-5-nitrophenyl]methyl]-N-ethyl-2-(4-methoxyphenyl)-4-methyl-5-oxo-(9CI) (CA INDEX NAME)



RN 126001-74-9 HCA

CN 1-Pyrazolidinecarboxamide, N-[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]-2-(4-methoxyphenyl)-N-methyl-5-oxo- (9CI) (CA INDEX NAME)

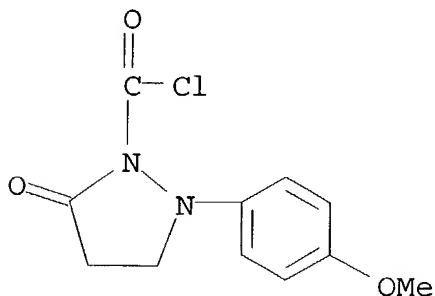


IT 125981-24-0 125981-27-3

(reaction of, **electron transfer agent**
for color **photog.** film from)

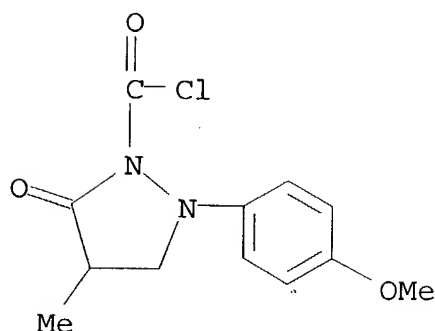
RN 125981-24-0 HCA

CN 1-Pyrazolidinecarbonyl chloride, 2-(4-methoxyphenyl)-5-oxo- (9CI)
(CA INDEX NAME)



RN 125981-27-3 HCA

CN 1-Pyrazolidinecarbonyl chloride, 2-(4-methoxyphenyl)-4-methyl-5-oxo-
(9CI) (CA INDEX NAME)



- IC ICM G03C007-32
ICS G03C007-26; G03C007-30
- ICA C07D231-04
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 28
- ST **electron transfer agent photog**
film; development accelerator color **photog** film;
pyrazolidinone compd color **photog** film
- IT **Photographic films**
(color, arylpyrazolidinone-type **electron**
transfer agent in)
- IT 125981-30-8 125981-31-9
(**electron transfer agent**, in color
photog. film)
- IT 125981-20-6P 125981-21-7P 125981-22-8P
126001-75-0P
(prepn. and reaction of, as **electron transfer**
agent in color **photog.** film)
- IT 125981-23-9P 125981-28-4P 125981-29-5P
126001-74-9P
(prepn. and use of, as **electron transfer**
agent in color **photog.** film)
- IT 13047-13-7 18162-48-6, tert-Butyldimethylsilyl chloride
125981-24-0 125981-25-1 125981-26-2 125981-27-3
126001-73-8
(reaction of, **electron transfer agent**
for color **photog.** film from)
- L45 ANSWER 12 OF 14 HCA COPYRIGHT 2003 ACS
- 112:148986 **Photographic** materials providing improved
granularity. Michno, Drake M.; Platt, Norma B.; Steele, David A.;
Southby, David T. (Eastman Kodak Co., USA). U.S. US 4859578 A
19890822, 14 pp. (English). CODEN: USXXAM. APPLICATION: US
1988-209611 19880621.
- GI For diagram(s), see printed CA Issue.
- AB **Photog.** materials providing improved granularity and low
fog without sacrifice in other **photog.** properties contain

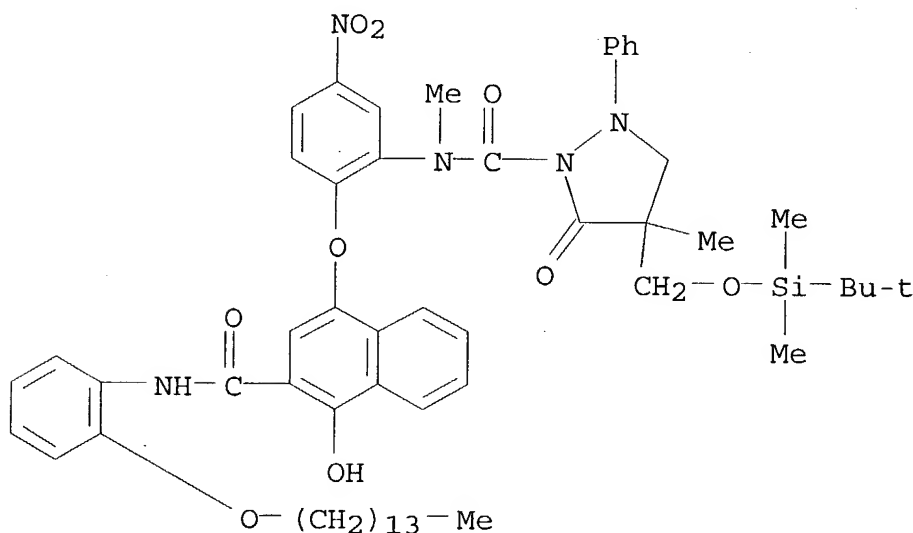
an **image** dye-forming coupler, a development-inhibitor-releasing compd., a compd. capable of imagewise release of a sol. mercaptan, and a compd. capable of imagewise release of a 1-aryl-3-pyrazolidinone deriv. electron-transfer agent of the structure I or II (R1, R2 = H, C1-8 alkyl, carbamoyl, C6-10 aryl; R3, R4 = H, C1-8 alkyl, C6-10 aryl; R5 = H, C1-8 alkyl, C1-8 alkoxy, sulfonamido, a no. of R5s together may form a carbocycle or a heterocycle; m = 0-3).

IT 125981-22-8P

(prepn. and hydrolysis of, **photog.** electron-transfer-agent-releasing compd. from)

RN 125981-22-8 HCA

CN 1-Pyrazolidinecarboxamide, 4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-N-[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]-N,4-dimethyl-5-oxo-2-phenyl- (9CI) (CA INDEX NAME)

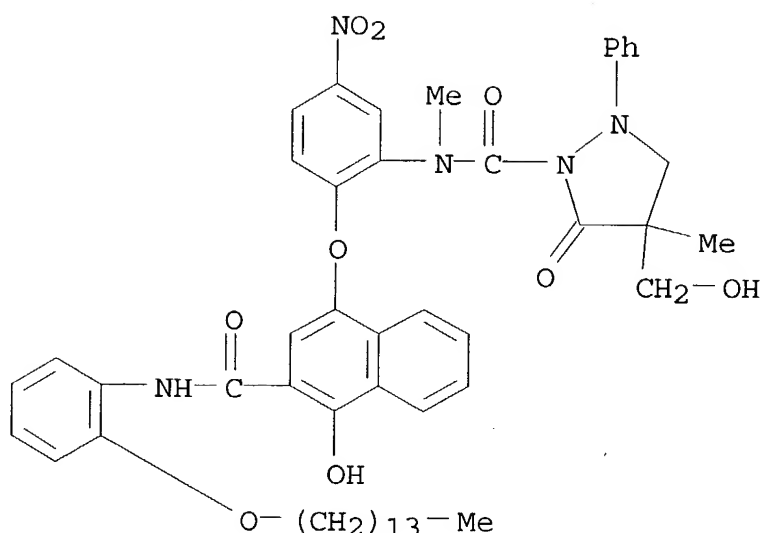


IT 125981-23-9P

(prepn. and **photog.** electron-transfer-agent-releasing compd. applications of, in color materials for improved granularity and low fog)

RN 125981-23-9 HCA

CN 1-Pyrazolidinecarboxamide, 4-(hydroxymethyl)-N-[2-[[4-hydroxy-3-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]-1-naphthalenyl]oxy]-5-nitrophenyl]-N,4-dimethyl-5-oxo-2-phenyl- (9CI) (CA INDEX NAME)



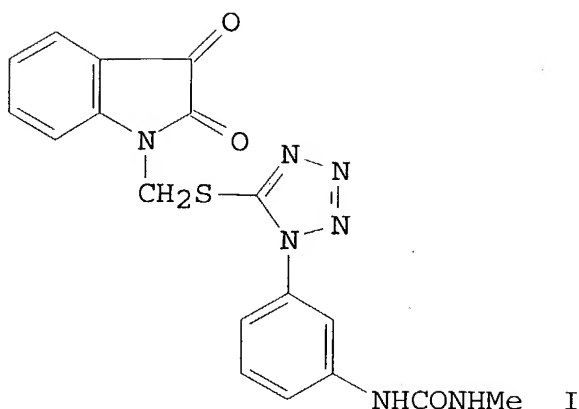
IC ICM G03C007-30
ICS G03C007-32
NCL 430544000
CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
ST color **photog** material granularity fog; electron transfer
agent releaser **photog**; aryl pyrazolidone electron transfer
agent
IT **Photographic films**
(color, contg. electron-transfer-releasing agent, for improved
granularity and low fog)
IT 72143-89-6 105488-33-3 111631-54-0 125981-32-0 125981-33-1
125981-34-2 125981-35-3
(color **photog.** materials contg. electron-transfer-agent-
releasing compd. and, with improved granularity and low fog)
IT 5084-13-9
(color **photog.** materials contg., for improved
granularity and low fog)
IT 125981-30-8 125981-31-9
(**photog.** electron-transfer-agent-releasing compd. for
color materials for improved granularity and low fog)
IT **125981-22-8P** 126001-75-0P
(prepn. and hydrolysis of, **photog.** electron-transfer-
agent-releasing compd. from)
IT **125981-23-9P** 126001-74-9P
(prepn. and **photog.** electron-transfer-agent-releasing
compd. applications of, in color materials for improved
granularity and low fog)
IT 125981-21-7P
(prepn. and reaction of, with (methyaminonitrophenoxy)-N-
tetradecyloxyphenylhydroxynaphthamide, **photog.**
electron-transfer-agent-releasing compd. from)

- IT 125981-20-6P
(prepn. and reaction of, with phosgene, **photog.** electron-transfer-agent-releasing compd. from)
- IT 125981-28-4P 125981-29-5P
(prepn. of, as **photog.** electron-transfer-agent-releasing compd. for color materials for improved granularity and low fog)
- IT 125981-24-0
(reaction of, with (methylaminonitrophenoxy)-N-tetradecyloxyphenylhydroxynaphthamide, **photog.** electron-transfer-agent-releasing compd. from)
- IT 125981-26-2
(reaction of, with chlorocarbonylmethoxyphenylmethylpyrazolidinone, **photog.** electron-transfer-agent-releasing compd. from)
- IT 18162-48-6, tert-Butyldimethylsilyl chloride
(reaction of, with hydroxymethylmethylphenylpyrazolidinone deriv., **photog.** electron-transfer-agent-releasing compd. from)
- IT 125981-27-3
(reaction of, with pivaloyl deriv., **photog.** electron-transfer-agent-releasing compd. from)
- IT 13047-13-7 125981-25-1
(reaction of, with tert-butyldimethylsilyl chloride, **photog.** electron-transfer-agent-releasing compd. from)
- IT 126001-73-8
(reaction of, with tert-butyldimethylsilyl-N-chlorocarbonylmethylphenylpyrazolidinone deriv., **photog.** electron-transfer-agent-releasing compd. from)

L45 ANSWER 13 OF 14 HCA COPYRIGHT 2003 ACS

103:30239 Color **photographic** photosensitive materials. (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 59219741 A2 19841211 Showa, 19 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1983-94639 19830527.

GI

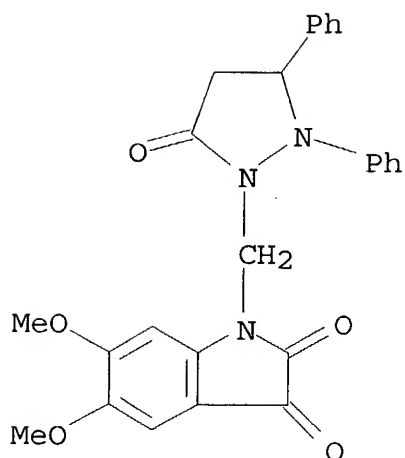


AB **Ag halide photog.** photosensitive materials contain blocked **photog.** agent having .gtoreq.1 amido group(s), whose N atom is linked with electron-attractive group (or group which may be converted to electron attractive group during development) via .pi.-bond, and a moiety of **photog.** useful compd. which is attached at the position to the dissocd. during the intramol. nucleophilic reaction of the N atom or as the result of **electron transfer** from the N atom. The **photog.** agent precursors show excellent storage stability and **photog.** agent-releasing timing. Thus, a **photog.** film prepd. by using a fog inhibitor precursor I and a conventional magnetic **coupler** was sensitometrically exposed and developed to show that the precursor I had excellent fog inhibitor releasing timing to give magenta dye **images** with high sensitivity (high optical d.) and small fog.

IT 95966-39-5
 (**photog.** development promoting agent-releasing compd.)

RN 95966-39-5 HCA

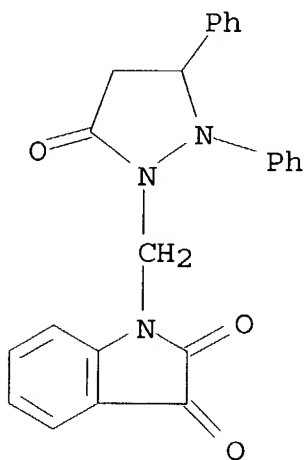
CN 1H-Indole-2,3-dione, 5,6-dimethoxy-1-[(5-oxo-2,3-diphenyl-1-pyrazolidinyl)methyl]- (9CI) (CA INDEX NAME)



IT 95966-37-3

(photog. fog inhibitor releasing compd.)

RN 95966-37-3 HCA

CN 1H-Indole-2,3-dione, 1-[(5-oxo-2,3-diphenyl-1-pyrazolidinyl)methyl]-
(9CI) (CA INDEX NAME)

IC ICM G03C001-06

ICS G03C007-00; G03C007-26

ICA C07D209-38; C07D243-14; C07D263-56; C07D401-06; C07D403-06;
C07D403-12; C07D413-12; C07D417-12; C07D417-14CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)ST fog inhibitor precursor **photog** color; phenidone releasing
compd color **photog**; development promoter precursor
photogIT **Photographic** developers

(development promoters for, precursors for, pyrazolidone derivs.)

IT **Photographic** fog inhibitors
 (precursors for, mercaptotetrazole derivs. as)
 IT 95966-39-5
 (**photog.** development promoting agent-releasing compd.)
 IT 95966-37-3
 (**photog.** fog inhibitor releasing compd.)
 IT 95966-38-4P
 (prepn. of, as **photog.** development promoting
 agent-releasing compd.)
 IT 95966-34-0P 95966-35-1P 95966-36-2P
 (prepn. of, as **photog.** fog inhibitor releasing compd.)

L45 ANSWER 14 OF 14 HCA COPYRIGHT 2003 ACS
94:22892 **Photographic** recording material containing blocked
photographically useful compound. Archie, William Councill,
Jr.; Archie Jr., William Councill (Eastman Kodak Co., USA). Eur.
Pat. Appl. EP 9989 19800416, 92 pp. (English). CODEN: EPXXDW.
APPLICATION: EP 1979-302137 19791008.

Chemical structure of compound 10, showing a complex azo dye derivative. The structure includes a naphthalene core with a hydroxyl group, a sulfonamide group, and a long-chain amide group. The sulfonamide group is linked via a benzene ring to an azo group, which is connected to another naphthalene system. This second naphthalene has a sulfonamide group at position 1, a sulfonamide group at position 2, and a sulfonamide group at position 3. The sulfonamide group at position 2 is linked via a benzene ring to a sulfonamide group, which is further linked to a sulfonamide group. The sulfonamide group at position 3 is linked via a benzene ring to a sulfonamide group, which is further linked to a sulfonamide group.

AB Color diffusion-transfer **photog.** materials contain blocked **photog.** useful compds., such as redox dye-releasing compds., development inhibitors, developing **agents**, **electron transfer agents**, and color **couplers**, which are blocked with a group which, under alk. conditions, is cleared from the compds. by an intramol. nucleophilic displacement reaction. The compds. are resistant to unblocking under storage conditions but are uniformly unblocked under conditions encountered during **photog.** processing. Thus, a color diffusion-transfer **photog.** film was prepd. by coating a **AgBr** (0.8 μ . grains) emulsion contg. the redox dye releasing compd. I at 5 times. 10^{-5} mol I and 0.1 g Ag/ft² on a

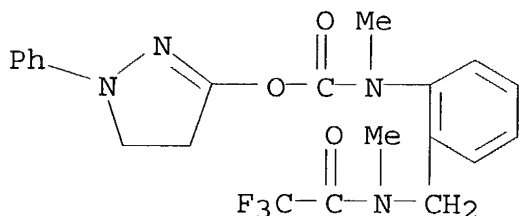
poly(ethylene terephthalate) film support, exposed through a graduated-d. step tablet and processed by rupturing a pod contg. viscous processing soln. consisting of NaOH 20, KOH 10, hydroxyethyl cellulose 25, 4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidone 0.75 g and H₂O 1 L while in contact with a receiver sheet contg. a dye-mordanting layer and a TiO₂ reflecting layer to give a red D_{max} of 0.53, 1.56, and 2.22 for a processing time of 30, 30, and 120 s, resp. Another poly(ethylene terephthalate) film support was coated with a layer of I dissolved in an org. solvent and dispersed in gelatin at 5 .times. 10⁻⁵ mol I/ft², contacted with a 1.0N NaOH soln., and the amt. of the unblocked dye appearing at discrete intervals was detd. The value t_{1/2} (the time required to produce 1/2 the final d.) was 3 s.

IT 76048-09-4 76048-10-7

(**photog. developing agent** and
electron transfer agent, for color
diffusion-transfer films)

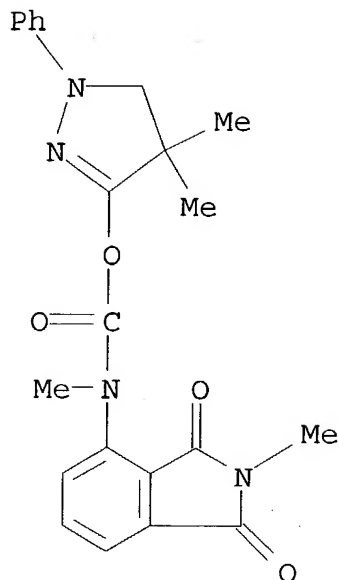
RN 76048-09-4 HCA

CN Carbamic acid, methyl[2-[[methyl(trifluoroacetyl)amino]methyl]phenyl]-, 4,5-dihydro-1-phenyl-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 76048-10-7 HCA

CN Carbamic acid, (2,3-dihydro-2-methyl-1,3-dioxo-1H-isoindol-4-yl)methyl-, 4,5-dihydro-4,4-dimethyl-1-phenyl-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



- IC G03C005-54
 CC **74-2** (Radiation Chemistry, Photochemistry, and
 Photographic Processes)
 ST color diffusion transfer **photog** film; blocked org compd
 color **photog**
 IT **Photographic couplers**
 (blocked, for diffusion-transfer films)
 IT **Photographic developers**
 (color, blocked, for diffusion-transfer films)
 IT **Photographic development**
 (color, inhibitors for, blocked, for diffusion-transfer films)
 IT **Photographic films**
 (color, diffusion-transfer, blocked org. compds. for)
 IT 76048-06-1 76048-07-2
 (development inhibitor, for color diffusion-transfer
photog. films)
 IT 76048-03-8 76048-04-9 76048-05-0 76069-60-8 76069-61-9
 76069-62-0 76069-63-1 76082-39-8
 (dye-releasing compd., for color diffusion-transfer
photog. films)
 IT 76069-64-2
 (**photog. coupler**, for color
 diffusion-transfer films)
 IT 76048-08-3 **76048-09-4 76048-10-7**
 (**photog. developing agent** and
electron transfer agent, for color
 diffusion-transfer films)
 IT 76048-11-8 76069-65-3
 (**photog. redox-dye-releasing compd.**, for color
 diffusion-transfer films)

=> d l46 1-25 cbib abs hitstr hitind

L46 ANSWER 1 OF 25 HCA COPYRIGHT 2003 ACS

133:170210 **Silver halide photographic**

material containing dye dispersant and **coupler**. Iwagaki, Masaru; Kawabe, Satomi; Kawashima, Yasuhiko (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 2000227645 A2 20000815, 66 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-28588 19990205.

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

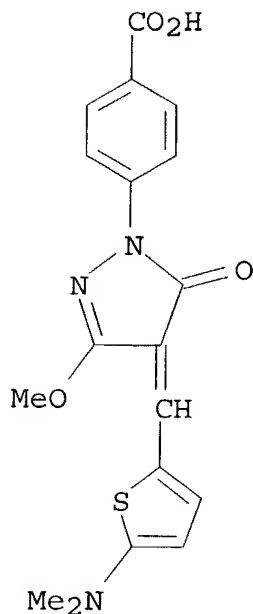
AB The title **photog.** material, possessing **photog.** constitutive layers including .gtoreq.1 blue-photosensitive, .gtoreq.1 green-photosensitive, and .gtoreq.1 **red** -photosensitive layers and .gtoreq.1 non-photosensitive layer on a support, contains .gtoreq.1 dye I [A = acidic nucleus; L1-3 = methine; n1 = 0-2; X1 = O, S, Se; R11-12 = H, (substituted) alkyl; R13-14 = alkyl], and (i) magenta **coupler** II (R21 = arylthio; R22 = aryl; R23 = substituent; n2 = 1-5), (ii) .gtoreq.1 cyan **coupler** III (R31 = alkyl, cycloalkyl; R32 = substituent; n3 = 1-4; X3 = group releasing upon reaction with an oxidized color **developing** agent) or (iii) .gtoreq.1 DIR compd. IV, V, YTSCR41R42CO2CR46R47X6 or YTSCR41R42CO2(CH2)2W [Y = yellow **coupler** residue capable of **coupling** with an oxidized color **developing** agent; T = (substituted) 1,2,4- or 1,2,3-triazole skeleton linking to the **coupling** position of Y by N atom; S = S linking to the C atom of T; R41, R46 = H, (substituted) alkyl, (substituted) aryl; R42, R43, R47 = (substituted) alkyl, (substituted) aryl; R44, R45 = substituent; X6 = oxycarbonyl, carbamoyl, carbonyl; W = (substituted) aryloxy, (substituted) arylthio, (substituted) sulfonyl; n4 = 0-4; m = 0-5]. The material may contain, in .gtoreq.1 of the **photog.** constitutive layers, a mixt. of .gtoreq.2 dyes in which .gtoreq.80% of the chem. structural formulas are the same but the other structural portions are different from each other. The **photog.** material shows improved sharpness and storage stability.

IT 287979-88-8

(**photog.** film contg. dye dispersant and **coupler**)

RN 287979-88-8 HCA

CN Benzoic acid, 4-[4-[[5-(dimethylamino)-2-thienyl]methylene]-4,5-dihydro-3-methoxy-5-oxo-1H-pyrazol-1-yl]- (9CI) (CA INDEX NAME)



IC ICM G03C001-83
ICS G03C001-06; G03C007-305; G03C007-34; G03C007-384
CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
ST **photog** film dye dispersant; **coupler**
photog film
IT **Photographic couplers**
(development-inhibitor-releasing; **photog.**
film contg. dye dispersant and **coupler**)
IT Cyanine dyes
Photographic couplers
Photographic films
(**photog.** film contg. dye dispersant and **coupler**
)
IT 150779-67-2 161429-20-5 172262-06-5 173320-42-8 174215-43-1
174215-57-7 186529-26-0 195718-79-7 201539-68-6 205383-34-2
205383-35-3 215921-10-1 219808-14-7 287979-83-3 287979-84-4
287979-85-5 287979-86-6 287979-87-7 **287979-88-8**
287979-89-9 287979-90-2 287979-91-3 287979-92-4 287979-93-5
287979-94-6 287979-95-7 287979-96-8 287979-97-9 287979-98-0
287979-99-1 287980-00-1 287980-01-2
(**photog.** film contg. dye dispersant and **coupler**
)

L46 ANSWER 2 OF 25 HCA COPYRIGHT 2003 ACS

133:157604 Magenta and yellow **coupler** combination in
silver halide photographic element.

Shuttleworth, Leslie; Jain, Rakesh; Harder, John W. (Eastman Kodak
Company, USA). U.S. US 6096493 A 20000801, 20 pp. (English).

CODEN: USXXAM. APPLICATION: US 1998-134621 19980814.

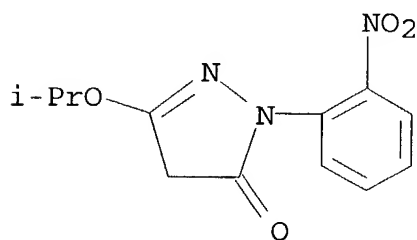
AB The invention relates to a **silver halide photog.** element having improved color reprodn. and to direct-viewing color **photog.** recording materials contg. particular classes of cyan and magenta **couplers**, the combination of which provides uniquely high color purities and a substantially large dye gamut than known color **photog.** materials. Disclosed is a **photog.** element comprising a light-sensitive **Ag halide** emulsion layer having assocd. therewith a certain magenta dye forming **coupler** and a light-sensitive **Ag halide** emulsion layer having assocd. therewith a certain yellow dye-forming **coupler**. The element exhibits improved dye fade and equal or better **red** color gamut than that obtained using comparisons.

IT 259223-92-2P 259223-93-3P

(prepn. of magenta **coupler** for magenta and yellow **coupler** combination in **silver halide photog.** element)

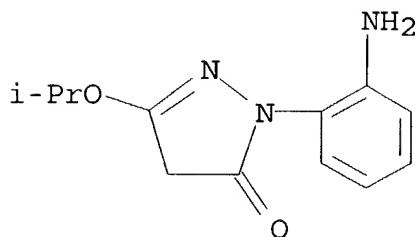
RN 259223-92-2 HCA

CN 3H-Pyrazol-3-one, 2,4-dihydro-5-(1-methylethoxy)-2-(2-nitrophenyl)-
(9CI) (CA INDEX NAME)



RN 259223-93-3 HCA

CN 3H-Pyrazol-3-one, 2-(2-aminophenyl)-2,4-dihydro-5-(1-methylethoxy)-
(9CI) (CA INDEX NAME)



IC ICM G03C001-08

ICS G03C007-26; G03C007-32

NCL 430549000

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST magenta yellow coupler photog
 IT Color photographic processing
 Dyes
 Magenta couplers
 Photographic emulsions
 Photographic films
 Photographic stabilizers
 Yellow couplers
 (bleach-fix for photog. element having magenta and
 yellow coupler combination for improved dye fading)
 IT Recording materials
 (photog.; bleach-fix for photog. element
 having magenta and yellow coupler combination for
 improved dye fading)
 IT 24567-76-8
 (bleach-fix for photog. element having magenta and
 yellow coupler combination for improved dye fading and
 better red color range contg.)
 IT 3710-84-7, n,n-Diethylhydroxylamine 9016-91-5, Lithium polystyrene
 sulfonate 12270-52-9, Blankophor REU
 (developer for photog. element having magenta
 and yellow coupler combination for improved dye fading
 and better red color range contg.)
 IT 84-74-2, Dibutylphthalate 124-17-4, 2-(2-Butoxyethoxy)ethyl
 acetate 903-19-5 3896-11-5, TINUVIN 326 25973-55-1
 53148-32-6 56773-44-5, Tetramethylammonium
 perfluorooctanesulfonate 65863-15-2, ALKANOL XC
 (photog. element having magenta and yellow
 coupler combination for improved dye fading and better
 red color range)
 IT 259224-01-6 287120-37-0 287120-38-1
 (photog. element having magenta and yellow
 coupler combination for improved dye fading and better
 red color range)
 IT 67-63-0, Isopropanol, reactions 105-56-6 3034-19-3,
 2-Nitrophenylhydrazine
 (prepn. of magenta coupler for magenta and yellow
 coupler combination in silver halide
 photog. element)
 IT 124292-88-2P 259223-91-1P 259223-92-2P
 259223-93-3P 259223-94-4P 259224-00-5P
 (prepn. of magenta coupler for magenta and yellow
 coupler combination in silver halide
 photog. element)
 IT 220229-85-6
 (prepn. of yellow coupler for magenta and yellow
 coupler combination in silver halide
 photog. element)
 IT 210692-40-3P 210706-50-6P 220229-86-7P 220229-87-8P
 220229-88-9P
 (prepn. of yellow coupler for magenta and yellow
 coupler combination in silver halide)

photog. element)

L46 ANSWER 3 OF 25 HCA COPYRIGHT 2003 ACS

132:271641 **Silver halide** color **photographic**

material with excellent color reproduction. Ishii, Yoshio; Ikeda, Akira; Ueda, Fuminori; Yamagami, Hiroshi; Yabuki, Yoshiharu (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2000105445 A2 20000411, 87 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-57097 19990304. PRIORITY: JP 1998-111197 19980421; JP 1998-214195 19980729.

AB In the color **photog.** material comprising on a support at least 1 yellow **coupler**-contg., blue-sensitive layer, at least 1 magenta **coupler**-contg., green-sensitive layer, and at least 1 cyan **coupler**-contg., **red**-sensitive layer, the color **photog.** material includes a hydrophilic colloid layer contg. a dye represented by A1:L-Q or A2:L-A3 (A1-3 = acid nucleus; Q = aryl, arom. heterocycle; L = methine). The **photog.** material may also contain a specific DIR (**development**-inhibitor-releasing) **coupler**.

IT 197314-17-3 263544-38-3

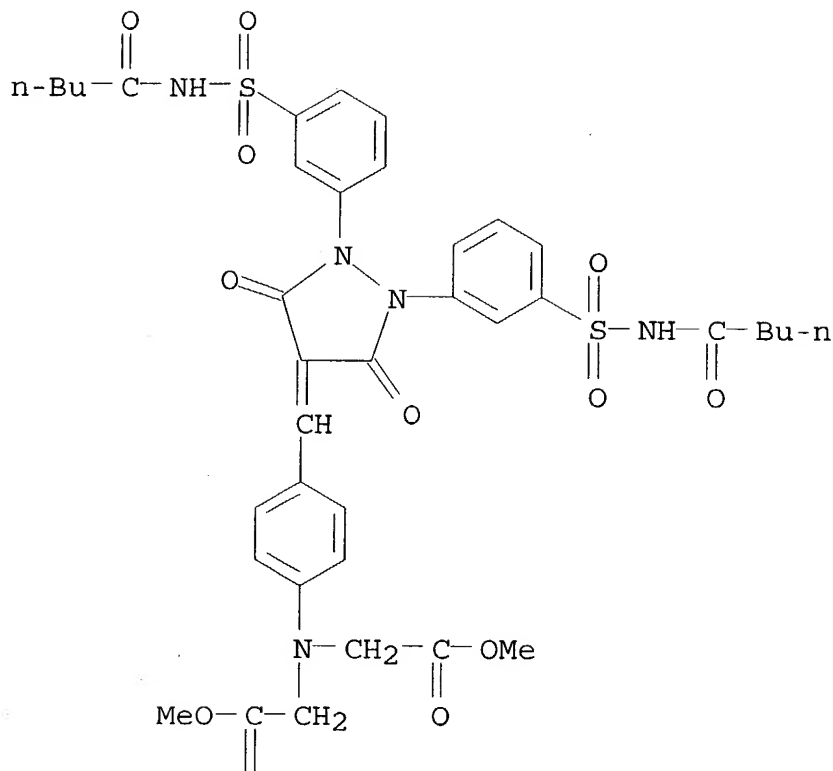
(methine dye in **Ag halide** color

photog. film with excellent color reprodn.)

RN 197314-17-3 HCA

CN Glycine, N-[4-[[[3,5-dioxo-1,2-bis[3-[[[(1-oxopentyl)amino]sulfonyl]phenyl]-4-pyrazolidinylidene]methyl]phenyl]-N-(2-methoxy-2-oxoethyl)-, methyl ester (9CI) (CA INDEX NAME)

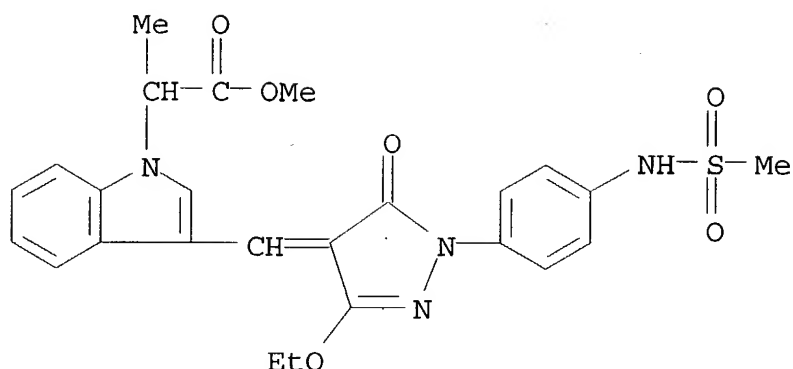
PAGE 1-A



PAGE 2-A



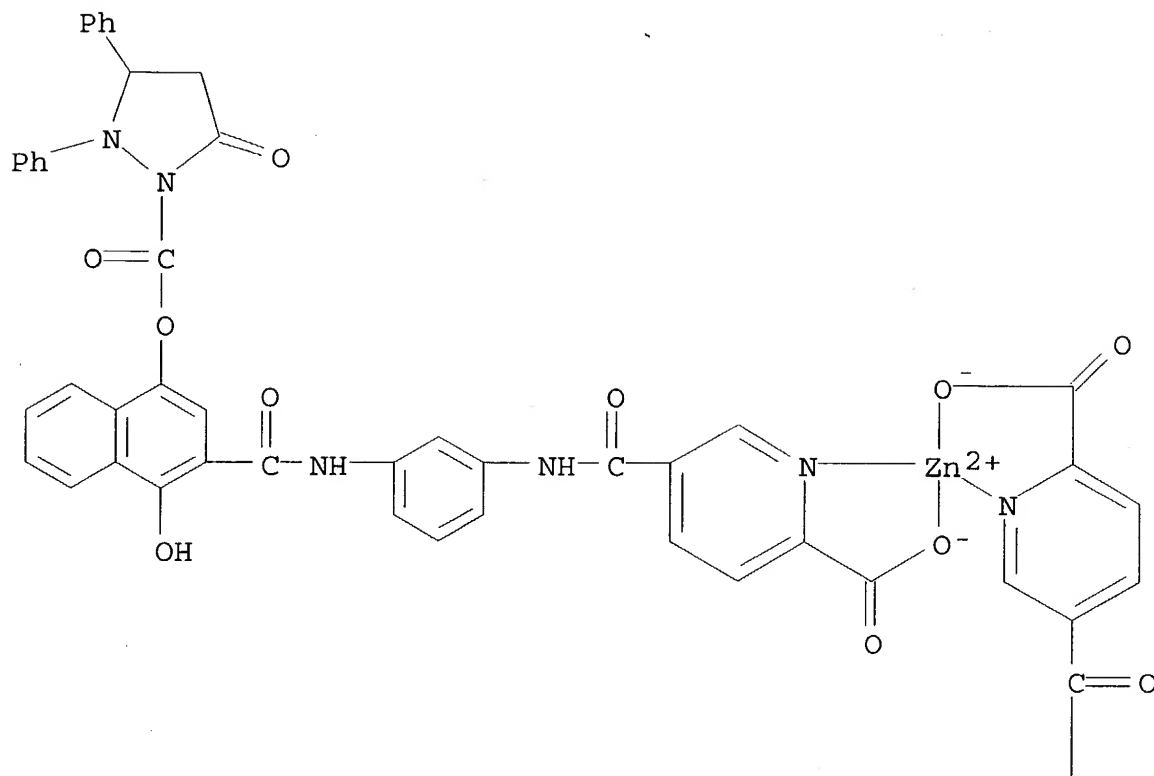
RN 263544-38-3 HCA
 CN 1H-Indole-1-acetic acid, 3-[[[3-ethoxy-1,5-dihydro-1-[4-
 [(methylsulfonyl)amino]phenyl]-5-oxo-4H-pyrazol-4-ylidene]methyl]-
 .alpha.-methyl-, methyl ester (9CI) (CA INDEX NAME)



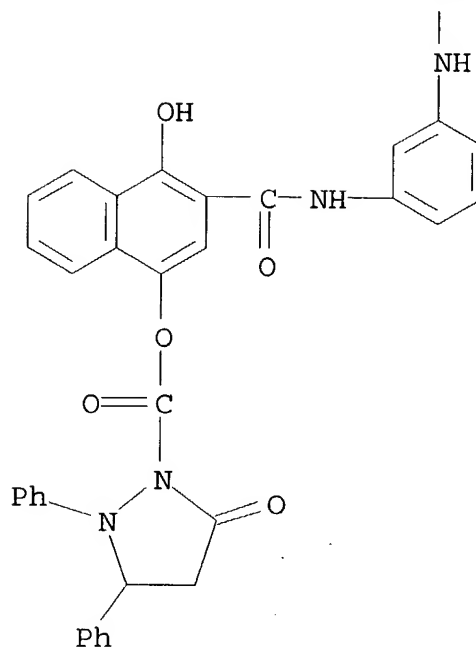
- IC ICM G03C007-20
ICS G03C001-83; G03C007-305
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST **silver halide color photog** film
methine dye DIR coupler
- IT **Photographic films**
(color; **Ag halide color photog.**
material with excellent color reprodn.)
- IT **Photographic couplers**
(development-inhibitor-releasing; **Ag**
halide color photog. material with excellent
color reprodn.)
- IT 130016-98-7 197314-17-3 198705-81-6 263544-38-3
263544-39-4
(methine dye in **Ag halide color**
photog. film with excellent color reprodn.)
- IT 176308-75-1P 176308-76-2P
(methine dye in **Ag halide color**
photog. film with excellent color reprodn.)
- IT 263551-30-0 263551-32-2
(**photog.** DIR coupler in **Ag**
halide color photog. film with excellent color
reprodn.)
- IT 161389-21-5P
(**photog.** DIR coupler in **Ag**
halide color photog. film with excellent color
reprodn.)
- IT 68-12-2, N,N-Dimethylformamide, reactions 487-89-8,
Indole-3-carbaldehyde 5445-17-0, 2-Bromopropionic acid methyl
ester 56957-32-5, 3-Amino-1-p-carboxyphenyl-5-pyrazolone
60875-16-3, 1-p-Carboxyphenyl-3-methyl-5-pyrazolone
(prepn. of methine dye for **Ag halide color**
photog. film with excellent color reprodn.)
- IT 176308-77-3P
(prepn. of methine dye for **Ag halide color**
photog. film with excellent color reprodn.)

- IT 62-53-3, Benzenamine, reactions 123-56-8, Succinic imide
32315-10-9, Triphosgene 41434-22-4 41710-89-8,
o-Tetradecyloxyaniline 65339-09-5 247115-52-2
(prepn. of **photog. DIR coupler** for **Ag**
halide color **photog.** film with excellent color
reprodn.)
- IT 247095-61-0P 247095-62-1P 247095-63-2P 247095-64-3P
247095-65-4P 247095-66-5P 247095-67-6P
(prepn. of **photog. DIR coupler** for **Ag**
halide color **photog.** film with excellent color
reprodn.)
- IT 247115-37-3P
(prepn. of **photog. DIR coupler** for **Ag**
halide color **photog.** film with excellent color
reprodn.)
- L46 ANSWER 4 OF 25 HCA COPYRIGHT 2003 ACS
128:8722 Rapid processing of **silver halide** color
photographic material with improved gradient balance.
Nakai, Yasushi; Tsukahara, Jiro; Kawagishi, Toshio (Fuji Photo Film
Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09269572 A2 19971014
Heisei, 85 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1996-80211 19960402.
- AB The **Ag halide** color **photog.** material
comprises blue-, green, and red-sensitive **Ag**
halide emulsion layers on a support and contains .gtoreq.1
compd. to deactivate a metal by forming a chelate. When
development processes (1 and 2) are carried out, gradient
ratios for yellow, magenta, and cyan satisfy the following relation:
 $0.8.\text{ltoreq.}r_2(Y)/r_1(Y).\text{ltoreq.}1.2$; $0.8.\text{ltoreq.}r_2(M)/r_1(M).\text{ltoreq.}1.2$
; and $0.8.\text{ltoreq.}r_2(C)/r_1(C).\text{ltoreq.}1.2$ ($r_1(Y)$, $r_1(M)$, and $r_1(C)$ =
gradient of Y, M, and C when the **development** (1) is
carried out; $r_2(Y)$, $r_2(M)$, and $r_2(C)$ = gradient of Y, M, and C when
the **development** (2) is carried out). The
development (1) is carried out using a color
developer contg. 15-20 mmol/L 2-Me-4-[N-Et-N-(.beta.-
hydroxyethyl)amino]aniline at 38.degree. for 3 min 15 s. The
development (2) is carried out using a color
developer contg. 35-40 mmol/L 2-Me-4-[N-Et-N-(.beta.-
hydroxyethyl)amino]aniline and a a water-sol. N-contg.
heterocyclic carboxylic acid chelating agent at 45.degree. for 60
s.
- IT 197863-19-7 197863-21-1 198905-33-8
198905-34-9
(chelating agent for **silver halide** color
photog. material)
- RN 197863-19-7 HCA
CN Zinc, bis[5-[[[3-[[[1-hydroxy-4-[[[5-oxo-2,3-diphenyl-1-
pyrazolidinyl]carbonyl]oxy]-2-naphthalenyl]carbonyl]amino]phenyl]ami
no]carbonyl]-2-pyridinecarboxylato-.kappa.N1,.kappa.O2]-, (T-4)-
(9CI) (CA INDEX NAME)

PAGE 1-A

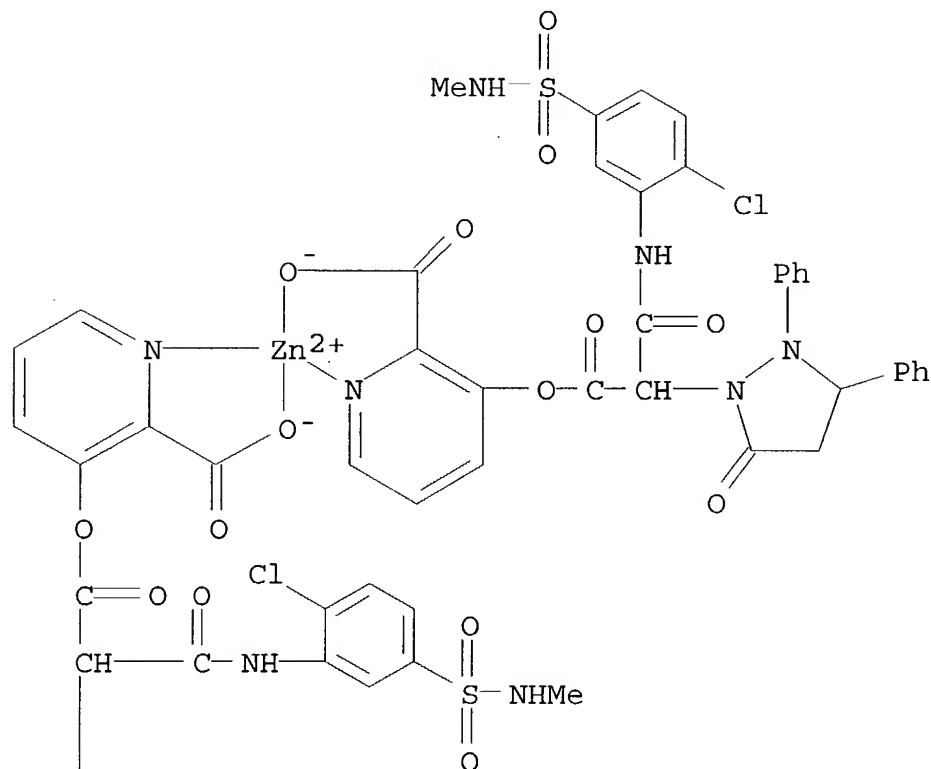


PAGE 2-A

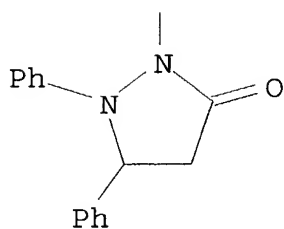


RN 197863-21-1 HCA
CN Zinc, bis[3-[3-[[2-chloro-5-[(methylamino)sulfonyl]phenyl]amino]-1,3-dioxo-2-(5-oxo-2,3-diphenyl-1-pyrazolidinyl)propoxy]-2-pyridinecarboxylato-.kappa.N1,.kappa.O2]-, (T-4)- (9CI) (CA INDEX NAME)

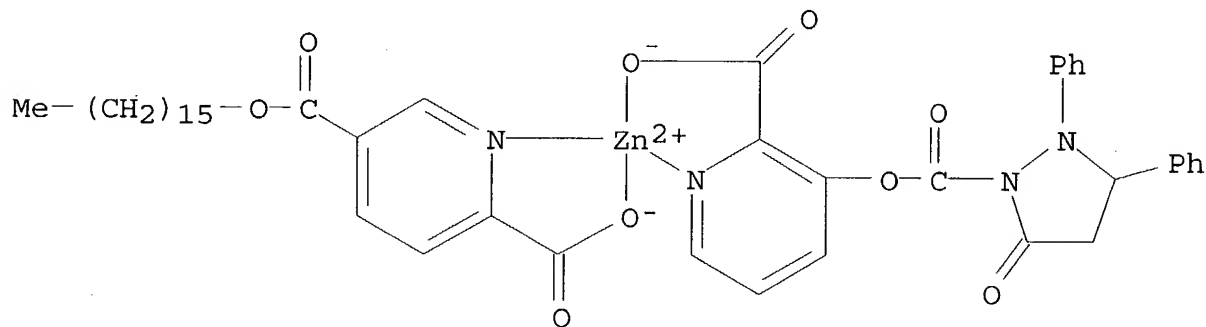
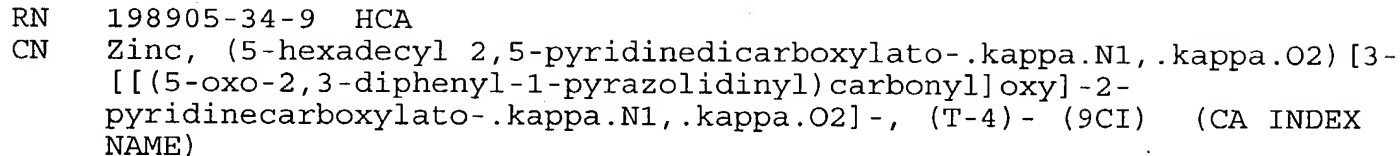
PAGE 1-A



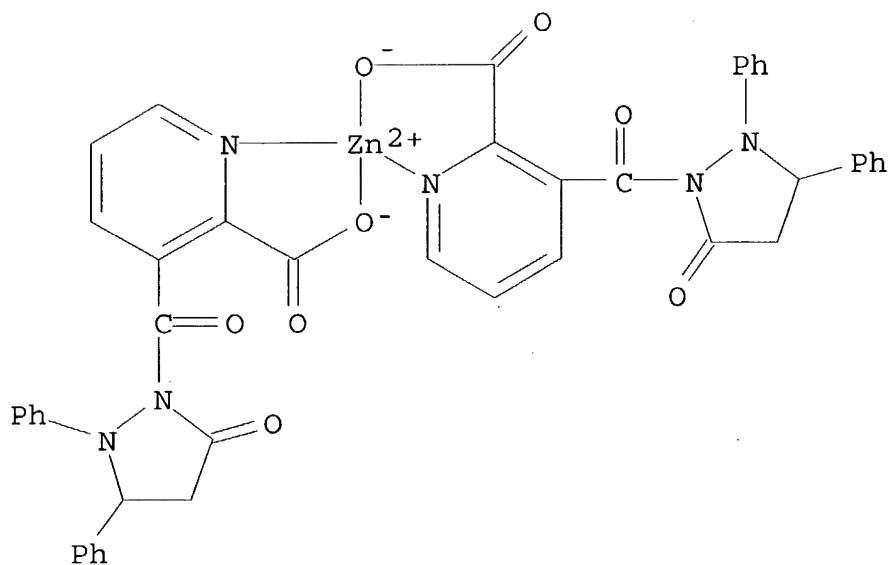
PAGE 2-A



RN 198905-33-8 HCA
 CN Zinc, bis[3-[[1-[(5-oxo-2,3-diphenyl-1-pyrazolidinyl)carbonyl]tridecyl]oxy]-2-pyridinecarboxylato-.kappa.N1,.kappa.O2]-, (T-4) - (9CI)
 (CA INDEX NAME)

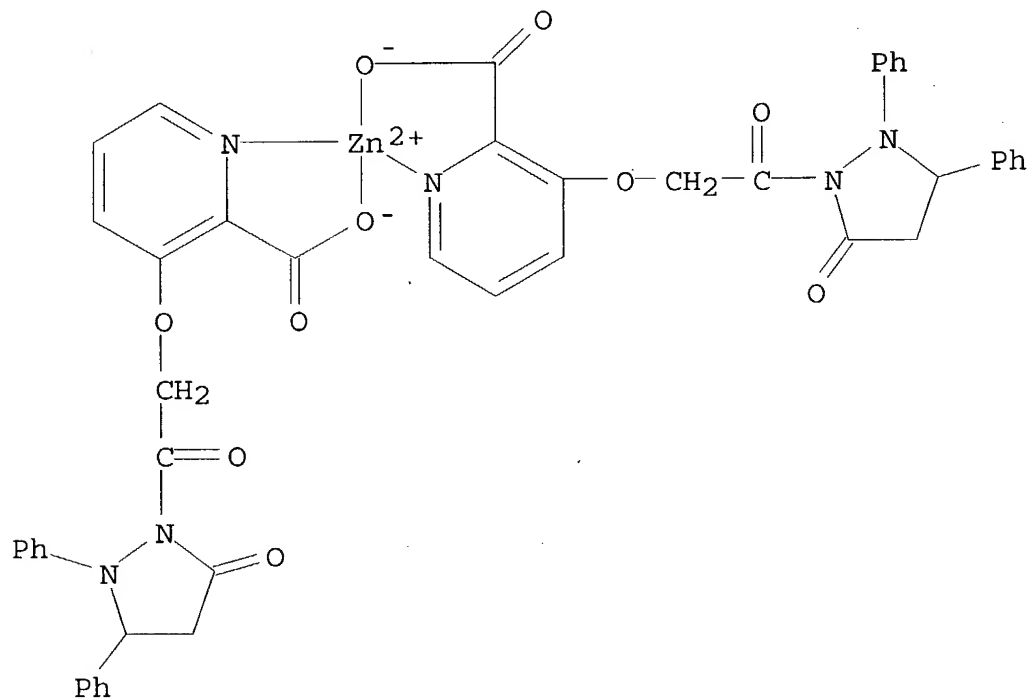


RN	198559-60-3	HCA
CN	Zinc, bis[3-[(5-oxo-2,3-diphenyl-1-pyrazolidinyl)carbonyl]-2-pyridinecarboxylato-.kappa.N1,.kappa.O2]-, (T-4)- (9CI) (CA INDEX NAME)	



RN 198559-62-5 HCA

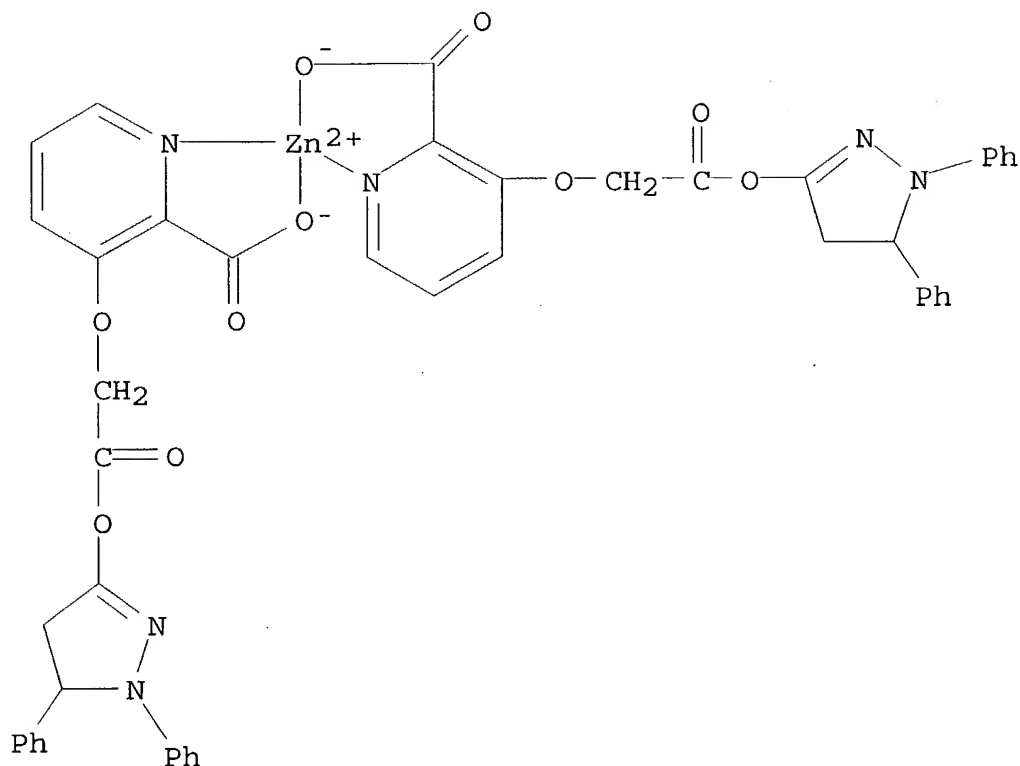
CN Zinc, bis[3-[2-oxo-2-(5-oxo-2,3-diphenyl-1-pyrazolidinyl)ethoxy]-2-pyridinecarboxylato-.kappa.N1,.kappa.O2]-, (T-4) - (9CI) (CA INDEX NAME)



RN 198559-64-7 HCA

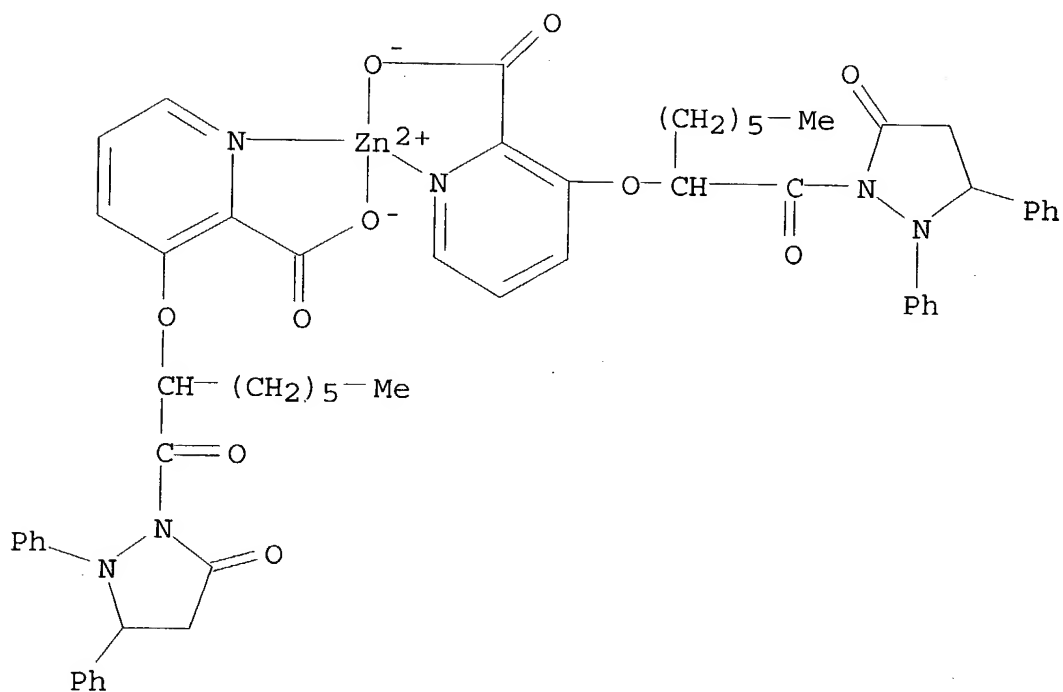
CN Zinc, bis[3-[2-[(4,5-dihydro-1,5-diphenyl-1H-pyrazol-3-yl)oxy]-2-oxoethoxy]-2-pyridinecarboxylato-.kappa.N1,.kappa.O2]-, (T-4) - (9CI)

(CA INDEX NAME)

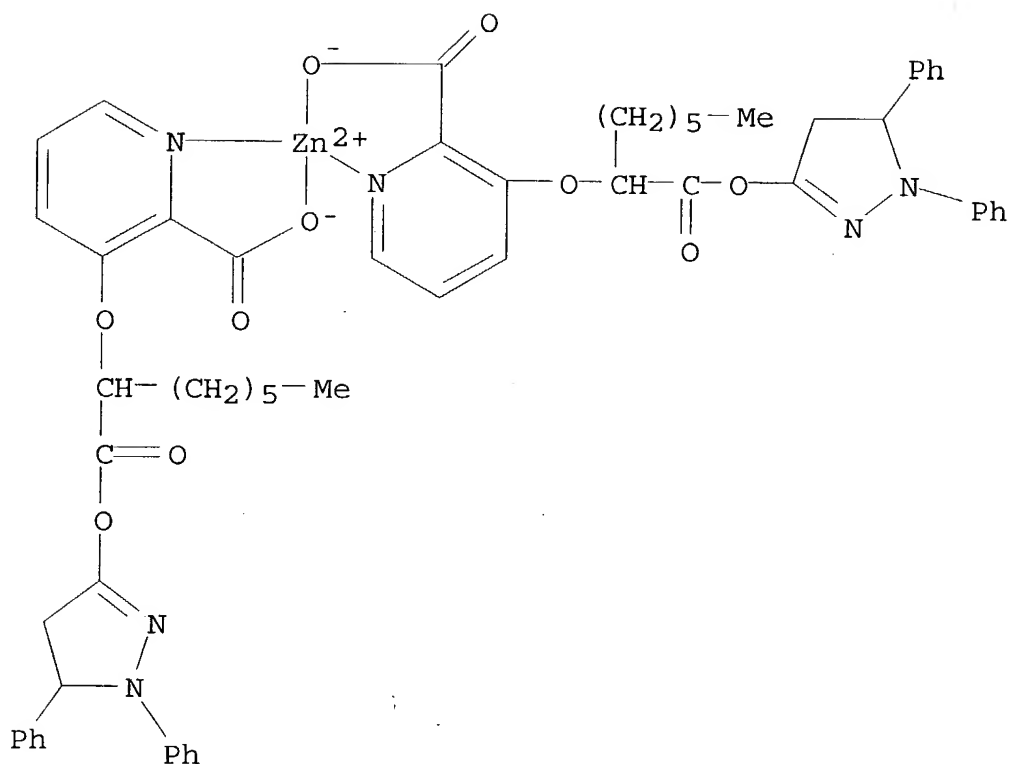


RN 198559-65-8 HCA

CN Zinc, bis[3-[[1-[(5-oxo-2,3-diphenyl-1-pyrazolidinyl)carbonyl]heptyl]oxy]-2-pyridinecarboxylato-.kappa.N1,.kappa.O2]-, (T-4)- (9CI) (CA INDEX NAME)



RN 198559-66-9 HCA
 CN Zinc, bis[3-[[1-[[[(4,5-dihydro-1,5-diphenyl-1H-pyrazol-3-yl)oxy]carbonyl]heptyl]oxy]-2-pyridinecarboxylato-
 .kappa.N1,.kappa.O2]-, (T-4) - (9CI) (CA INDEX NAME)



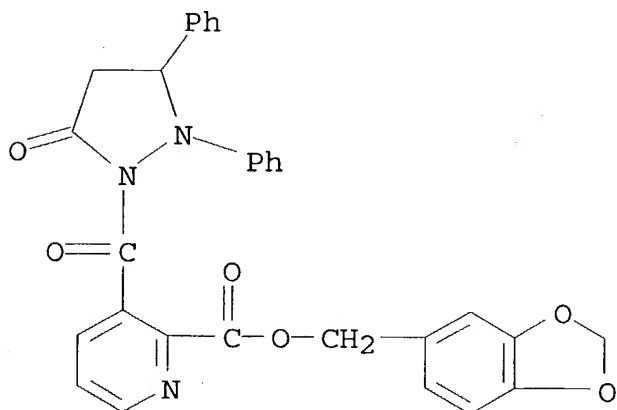
IT 198559-76-1P 198559-77-2P 198559-79-4P

198559-80-7P 198905-32-7P

(chelating agent for **silver halide** color
photog. material)

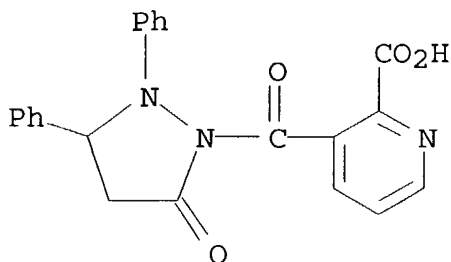
RN 198559-76-1 HCA

CN 2-Pyridinecarboxylic acid, 3-[(5-oxo-2,3-diphenyl-1-pyrazolidinyl)carbonyl]-, 1,3-benzodioxol-5-ylmethyl ester (9CI)
(CA INDEX NAME)



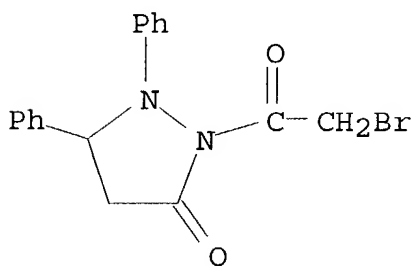
RN 198559-77-2 HCA

CN 2-Pyridinecarboxylic acid, 3-[(5-oxo-2,3-diphenyl-1-pyrazolidinyl)carbonyl]- (9CI) (CA INDEX NAME)



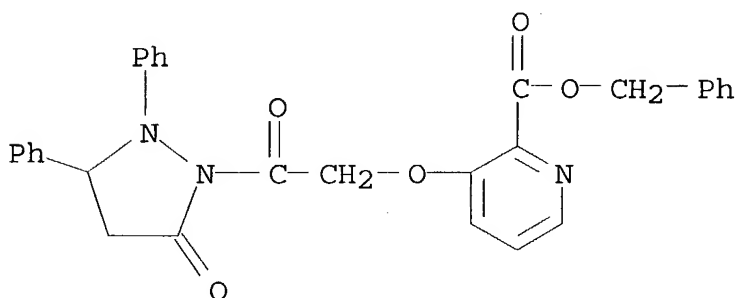
RN 198559-79-4 HCA

CN 3-Pyrazolidinone, 2-(bromoacetyl)-1,5-diphenyl- (9CI) (CA INDEX NAME)



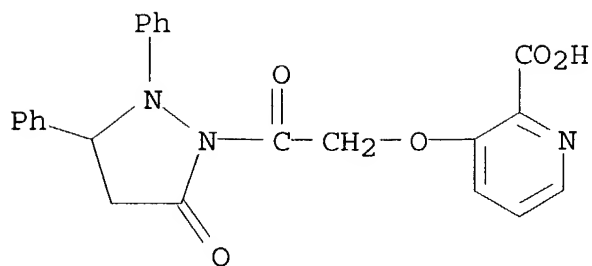
RN 198559-80-7 HCA

CN 2-Pyridinecarboxylic acid, 3-[2-oxo-2-(5-oxo-2,3-diphenyl-1-pyrazolidinyl)ethoxy]-, phenylmethyl ester (9CI) (CA INDEX NAME)



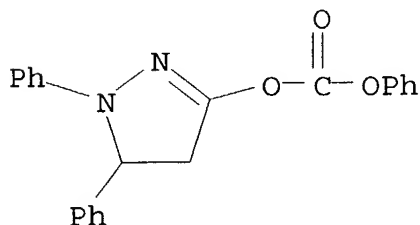
RN 198905-32-7 HCA

CN 2-Pyridinecarboxylic acid, 3-[2-oxo-2-(5-oxo-2,3-diphenyl-1-pyrazolidinyl)ethoxy]- (9CI) (CA INDEX NAME)



- IC ICM G03C007-305
ICS C09K003-00; G03C001-42; G03C001-43; G03C007-00; G03C007-388;
G03C007-407; G03C007-413
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST **silver halide color photog** material
processing; chelating agent color **photog** material;
development silver halide color
photog material
- IT **Photographic developers**
Photographic development
Photographic processing
(chelating agent for **silver halide color**
photog. material)
- IT Chelating agents
(chelating agent for **silver halide color**
photog. material)
- IT **Photographic couplers**
Photographic emulsions
(rapid processing of **silver halide color**
photog. material with improved gradient balance)
- IT 156954-38-0 197863-19-7 197863-21-1
198349-95-0 198905-33-8 198905-34-9
198905-35-0
(chelating agent for **silver halide color**
photog. material)
- IT 198559-60-3P 198559-62-5P 198559-64-7P
198559-65-8P 198559-66-9P
(chelating agent for **silver halide color**
photog. material)
- IT 6118-95-2P 198559-75-0P 198559-76-1P
198559-77-2P 198559-78-3P 198559-79-4P
198559-80-7P 198905-32-7P
(chelating agent for **silver halide color**
photog. material)
- IT 98-98-6, Picolinic acid 100-26-5, 2,5-Pyridine dicarboxylic acid
499-83-2, 2,6-Pyridinedicarboxylic acid 2359-51-5,
2-Methyl-4-[N-ethyl-N-(.beta.-hydroxyethyl)amino]aniline
(chelating agent for **silver halide color**
photog. material)

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 127:115203 Method for **development of silver halide color photographic material**. Takehara, Hiroshi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09138489 A2 19970527 Heisei, 74 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-317093 19951113.
- AB A **silver halide color photog. material** possessing at least each one blue-, green-, and **red**-sensitive and nonphotosensitive emulsion layer on a support is **color-developed** in such a way that the formation ratio of **development silver** becomes $\leq 60\%$ in the region of max. coloration d., wherein at least one of the photosensitive **silver halide emulsion layers** contains planar **silver halide grains** having **AgCl** content $\geq 50\%$ mol% and an aspect ratio ≥ 2 . The **silver halide color photog. material** contains an auxiliary main **developer**, a coloration reducing agent, and a DIR **coupler** releasing a **development inhibitor** upon **coupling** with the coloration reducing agent. The coloration reducing agent is represented by formula $R11NHNHR12$ [$R11 = (\text{un})\text{substituted aryl or heterocyclyl}$; $R12 = (\text{un})\text{substituted alkyl, alkenyl, alkynyl, aryl, or heterocyclyl}$; $X = SO_2, CO, COCO, CO_2, CONR13, COCO_2, COCONR13, SO_2NR13$; $R13 = H, R12$]. This **color photog. material** is suitable for rapid processing and this **color photog. development** provides excellent graininess even in rapid processing and excellent sensitivity/graininess ratio.
- IT 94274-24-5
 (precursor for auxiliary main **developer**; rapid **photog. development of silver halide color photog. material** contg. hydrazine deriv. as coloration reducing agent)
- RN 94274-24-5 HCA
 CN Carbonic acid, 4,5-dihydro-1,5-diphenyl-1H-pyrazol-3-yl phenyl ester (9CI) (CA INDEX NAME)



- IC ICM G03C007-407
 ICS G03C001-035; G03C001-42; G03C007-00; G03C007-305; G03C007-392
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST color **photog film development**; hydrazine coloration reducing agent
- IT **Photographic development**

Photographic films

- (color; rapid **photog. development** of **silver halide** color **photog. material** contg. hydrazine deriv. as coloration reducing agent)
- IT 13047-13-7
(auxiliary main **developer**, **developer** contg.; rapid **photog. development** of **silver halide** color **photog. material** contg. hydrazine deriv. as coloration reducing agent)
- IT 181364-69-2
(coloration reducing agent; rapid **photog. development** of **silver halide** color **photog. material** contg. hydrazine deriv. as coloration reducing agent)
- IT 148398-08-7
(**development** inhibitor-releasing **coupler**; rapid **photog. development** of **silver halide** color **photog. material** contg. hydrazine deriv. as coloration reducing agent)
- IT 94274-24-5
(precursor for auxiliary main **developer**; rapid **photog. development** of **silver halide** color **photog. material** contg. hydrazine deriv. as coloration reducing agent)

L46 ANSWER 6 OF 25 HCA COPYRIGHT 2003 ACS

124:215886 **Silver halide** color **photographic** materials using specific **coupler**. Saito, Naoki; Nishikawa, Toshihiro (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07281369 A2 19951027 Heisei, 51 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-90751 19940406.

GI